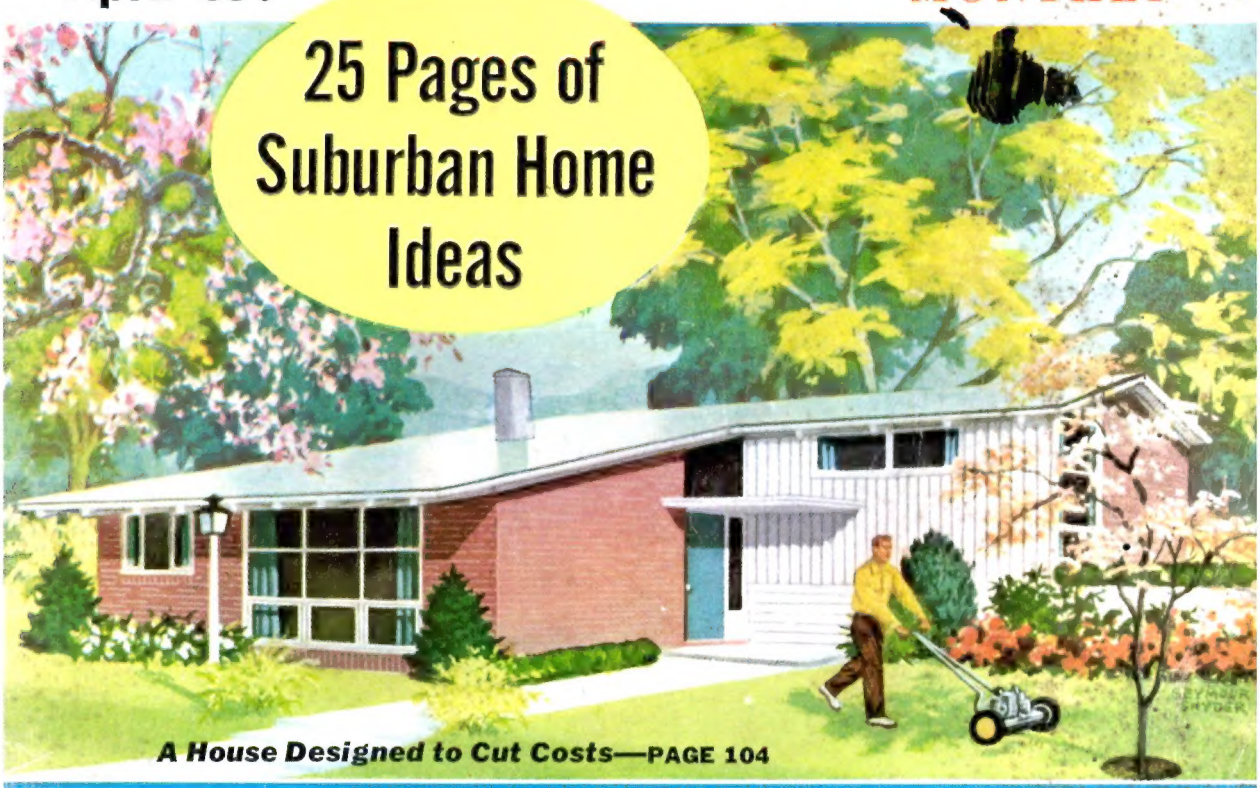
MECHANICS · AUTOS · HOMEBUILDING

POPULAR SCIENCE

April 35¢ MONTHLY



25 Pages of Suburban Home Ideas

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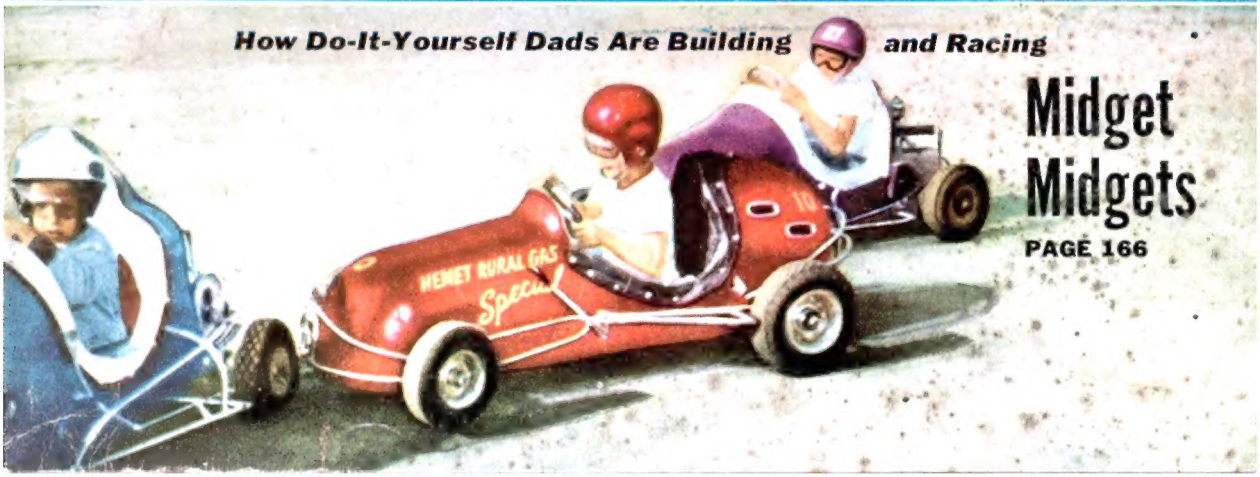

How Do-It-Yourself Dads Are Building and Racing

Midget Midgets

PAGE 166

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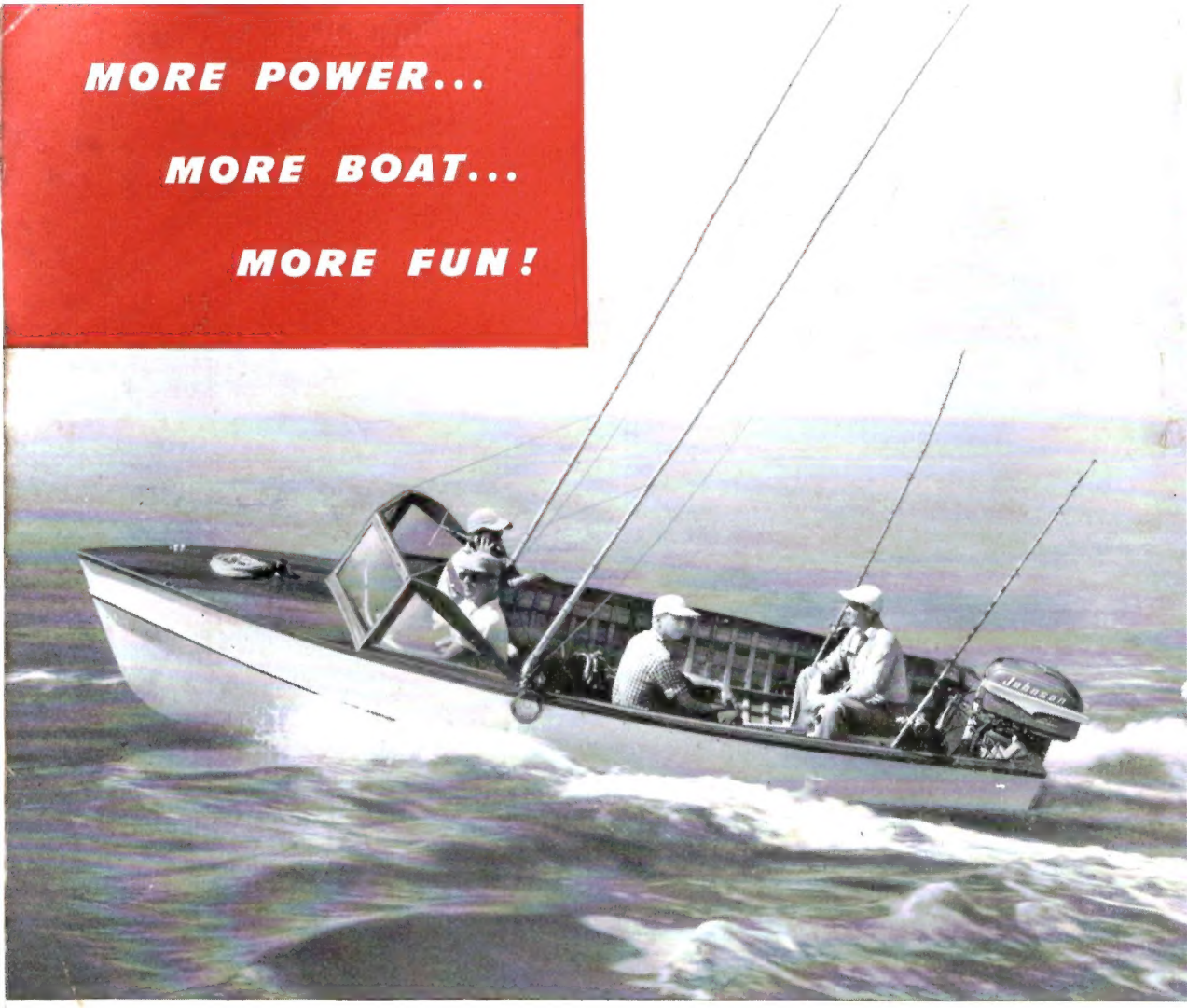

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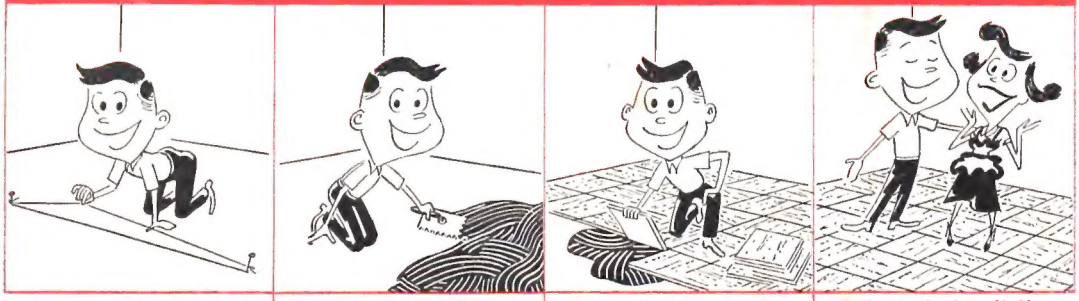

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April, 1955

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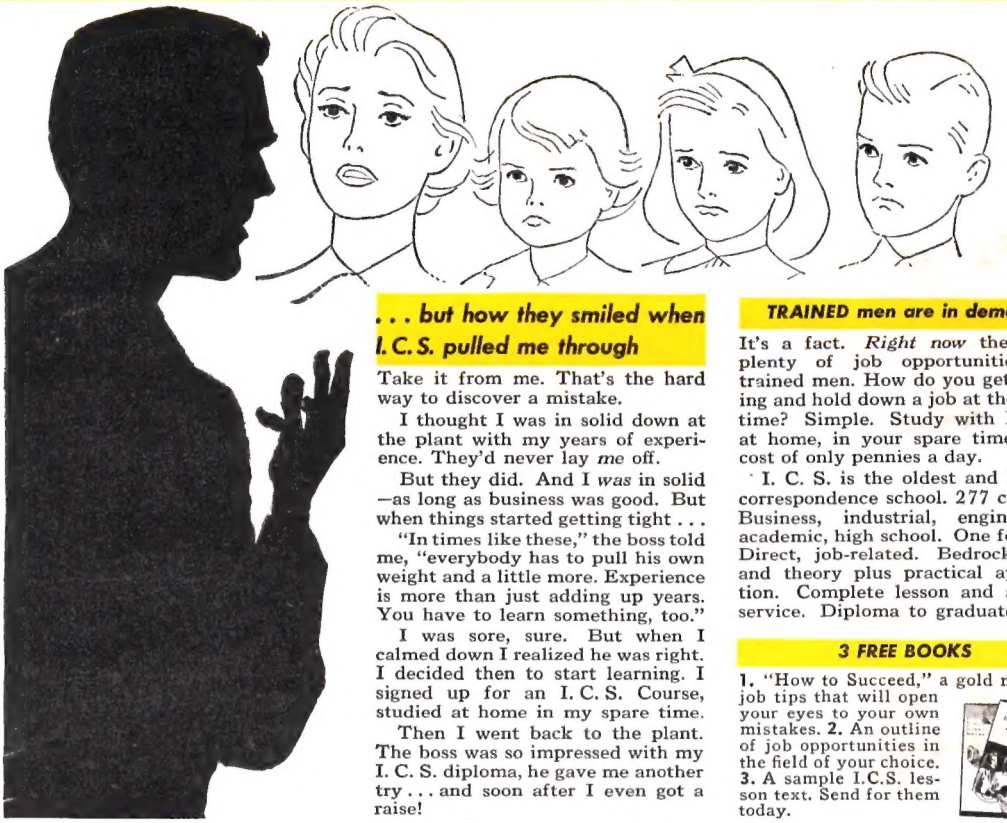
EDITORIAL OFFICES: 353 Fourth Avenue, New York 10, N. Y.

Published monthly at 353 Fourth Avenue, New York 10, N. Y., by Popular Science Publishing Co., Inc., Godfrey Hammond, President; Stephen P. Glennon, Vice-President and Secretary; Ralph H. Flynn, Vice-President and Treasurer; F. W. Briggs, Eugene Watson, Vice-Presidents. Entered as second-class matter Dec. 28, 1918, re-entered as second-class matter July 26, 1948, at the Post Office in New York, N. Y., under the act of March 3, 1879; additional entry as second-class matter at Dayton, Ohio. Entered as second-class matter at the Post Office Department, Canada. Printed in U.S.A. Copyright, 1955, by Popular Science Publishing Co., Inc. All rights reserved in the United States, Great Britain, and in all the countries participating in the International Copyright Convention and Pan-American Copyright Convention. Yearly subscriptions to United States, its possessions and Canada, $3.40 (2 years, $6.00; 3 years, $8.00); foreign countries $1 per year extra. Four weeks' notice is needed to change a subscriber's address. Please give both old and new addresses, including postal zone numbers.

I saw my job failure in my family's eyes



. . . but how they smiled when I. C. S. pulled me through

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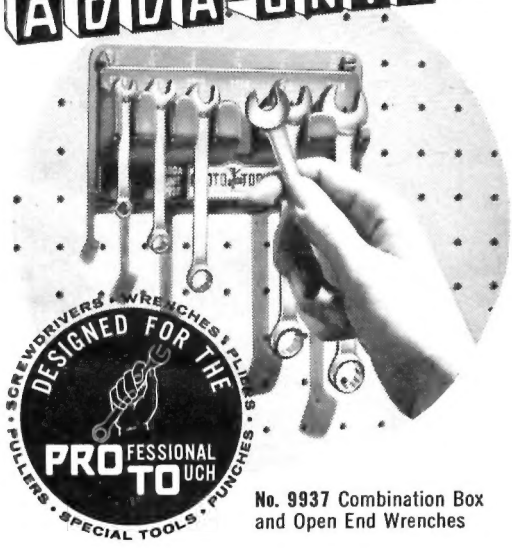

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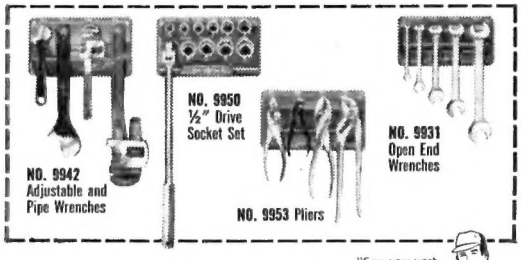

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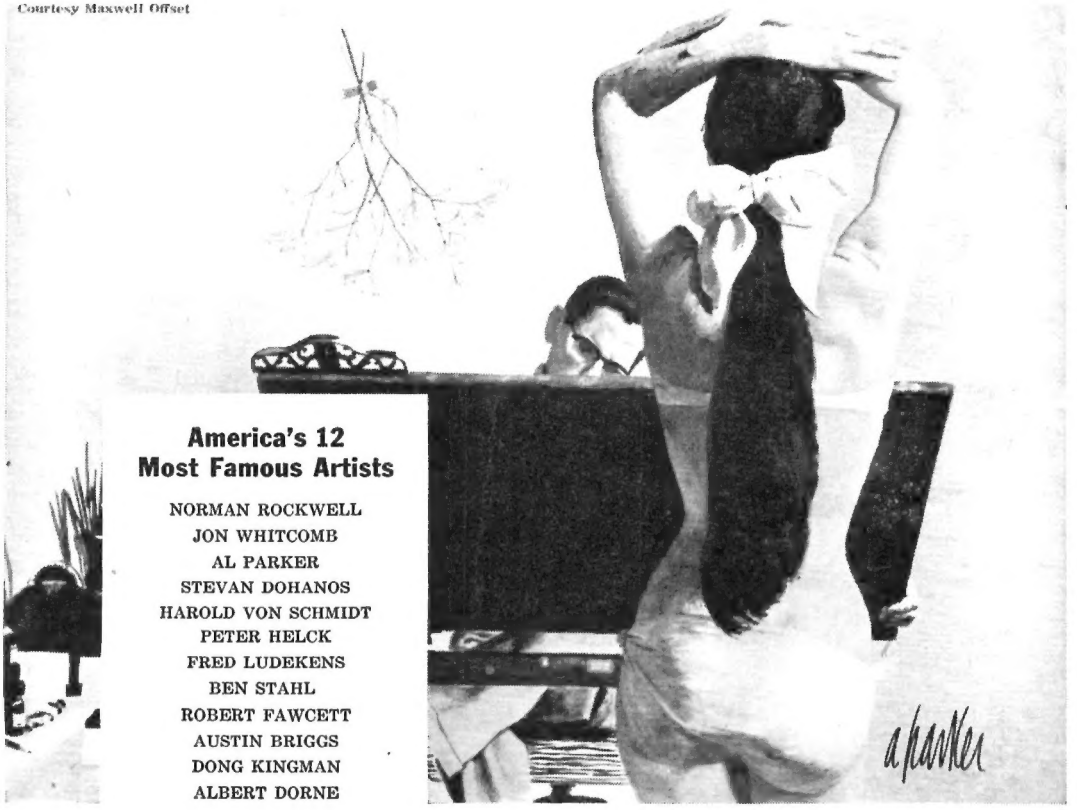

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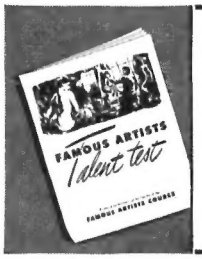

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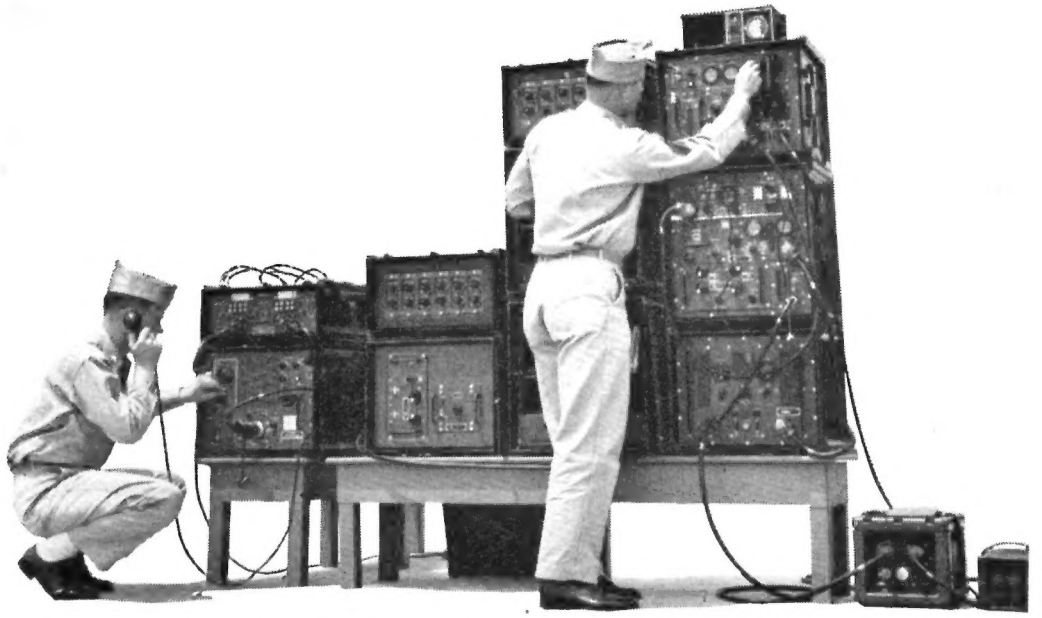

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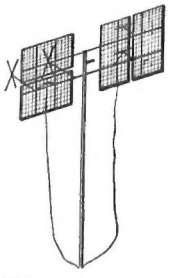

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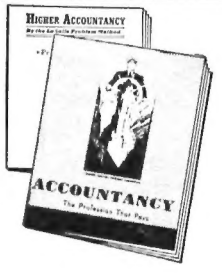

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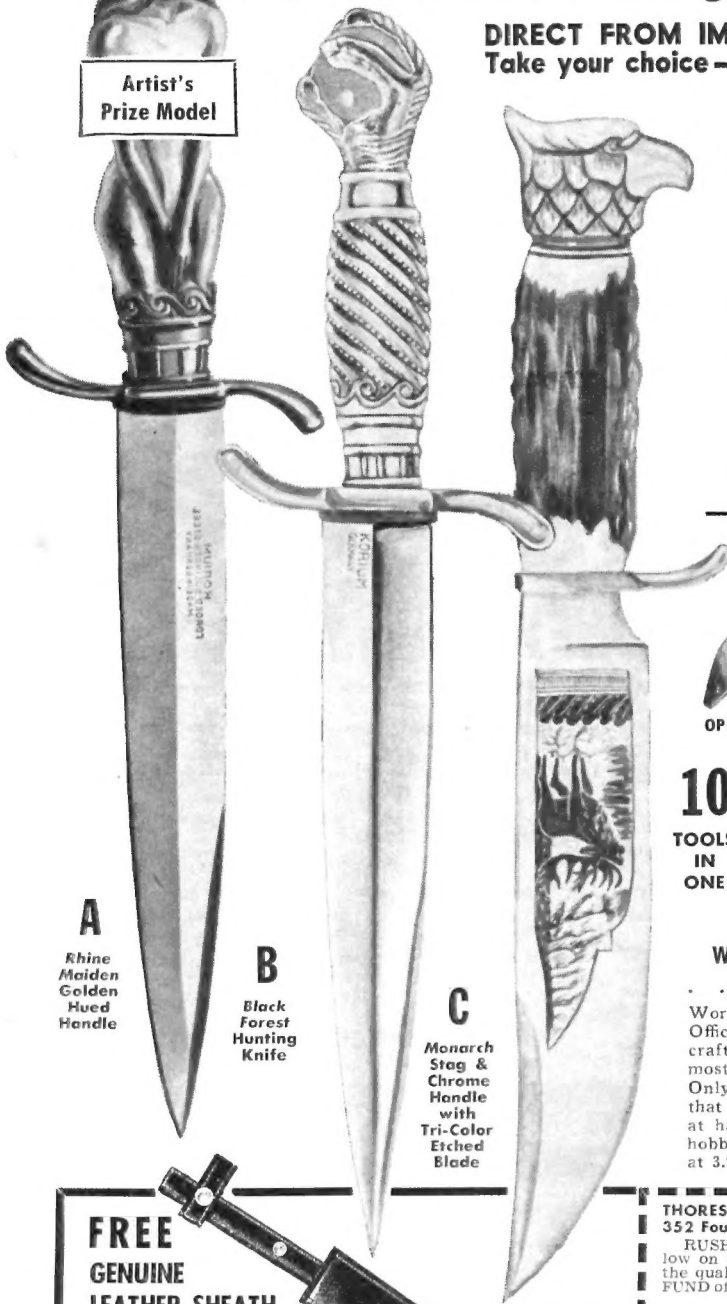

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B
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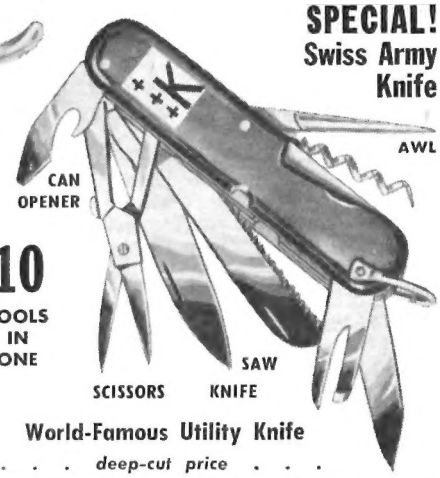

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( ) A ( ) B ( ) C ( ) Swiss Army Knife

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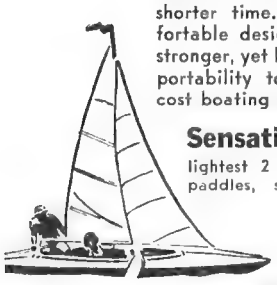

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New central heating system has

a thermostat in every room

Steam turbine operated fan in each room heater circulates filtered warm air. Thermostats are non-electric

SelecTemp room units, only 18 inches high, are recessed into wall and can be painted to match color scheme. Three sizes: 6,000, 12,000, and 18,000 Btu output.

Why didn't someone think of this long ago? Once in many years a new idea is born; one so simple, so logical, and so practical that it wins immediate and wide acceptance. People constantly tell us that the SelecTemp heating system is just such an idea.

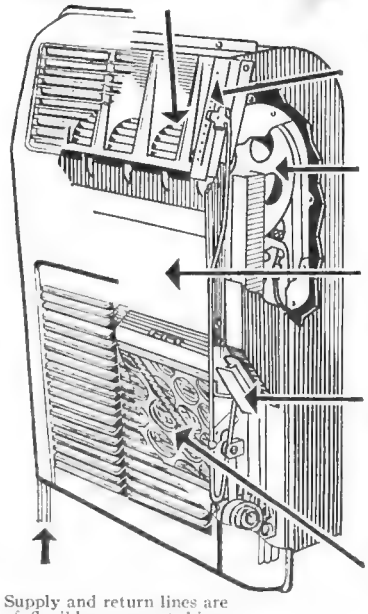
Home comfort beyond anything you've ever known. SelecTemp is the ultimate in modern heating—every *room* a *zone*, with its own thermostat. Every member of the family has just-right warmth, from 65° or so in mother's busy kitchen to tropical warmth for grandmother. Each room has a separate steam-fed heating unit, which constantly circulates filtered warm air. There is no wiring; fans and thermostats are non-electric. (*See diagram at right.*)

Economically installed. Fuel cost low. SelecTemp heating is very economically installed in new or old homes or buildings, since small flexible copper tubing carries steam to room units. SelecTemp eliminates *overheating* and *unnecessary* heating. Rooms not in use can be kept cool and quickly reheated when wanted. SelecTemp boiler with immersion coils will provide plenty of hot water, winter and summer, at low cost.

Continuous, *modulated* heat. The speed of the fan and the amount of steam supplied are constantly and automatically adjusted to room needs. No more heat than is needed, and no less. No pop-on, pop-off. Just steady heat, *accurately* metered.

Learn more about this revolutionary heating system. Mail the coupon. You will receive a 32-page booklet "12 Plans for Home Heating," describing SelecTemp heating, as well as accurate information on all principal types of modern heating.

Air circulating fan continuously draws room air through SelecTemp unit, quietly filters and re-circulates it.



Thermostat control lets you choose desired room temperature; any warmth level from 40° to 90°.

Small steam turbine operates air circulating fan faster or slower, as thermostat calls for more or less heat.

Heat transfer core. Efficient copper core heat exchanger converts steam heat to warm air heat.

Air sampling chimney constantly samples temperature of room air.

Spun glass filter cleans circulating air; prevents smudged walls and draperies.

Supply and return lines are of flexible copper tubing, only ¾ and ⅞ inch, I.D.

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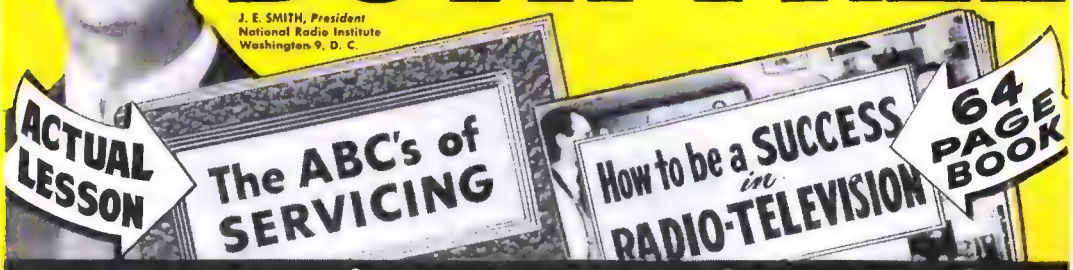
J. E. SMITH, *President*
National Radio Institute
Washington 9, D. C.

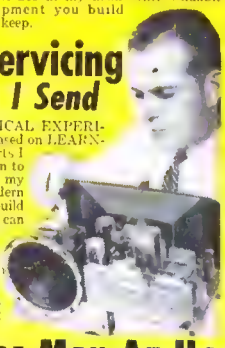


See How I Train You at Home in Spare Time for Good Pay Jobs in RADIO-TELEVISION

You Practice Broadcasting *with Equipment I Send*

As part of my Communications Course I send you kits of parts to build the low-power Broadcasting Transmitter shown at left. You use it to get practical experience putting this station "on the air," to perform procedures required of broadcasting station operators. An FCC Commercial Operator's license can be your ticket to a better job and a bright future. My course gives you the training you need to get your license. Mail coupon below. See in my book other valuable equipment you build and keep.

You Practice Servicing *with Equipment I Send*



Nothing takes the place of PRACTICAL EXPERIENCE. That's why NRI training is based on LEARNING BY DOING. You use kits of parts I furnish to build many circuits common to both Radio and Television. With my Servicing Course you build the modern receiver shown at right. You also build an Electronic Multitester which you can use to help fix sets while training at home. Many students make $10, $15 a week extra fixing neighbors' sets in spare time, starting soon after enrolling. I send you special booklets that show you how to fix sets. Mail coupon for 64-page book and actual Servicing Lesson, both FREE.

TRAINING plus OPPORTUNITY is the PERFECT combination. The sample lesson I send will prove to you that it is practical to keep your job while TRAINING right in your own home for better pay and a brighter future. My 64-page book should convince you that Radio-Television is truly today's field of OPPORTUNITY

TELEVISION MAKING JOBS, PROSPERITY

Radio, even without Television, is bigger than ever. 115 million home and auto Radios create steady demand for service. 3000 Radio stations give interesting, good pay jobs to operators, technicians. NOW ADD TELEVISION. 25 million Television homes and the total growing rapidly. 200 Television stations on the air and hundreds more under construction. Color Television soon to be a reality. Government, Aviation, Police, Ship, Micro-wave Relay, Two-way Communications for buses, taxis, trucks, railroads are growing fields providing good jobs for men who know Radio-Television. All this adds up to good pay now, a bright future later for men who qualify.

START SOON TO MAKE $10, $15 A WEEK EXTRA

An important benefit of Radio-Television training is that you can start to cash in fast. Many men I train fix neighbors' sets, make extra money, starting soon after they enroll. Multitester built with parts I send helps locate and correct set troubles. Read at left how you build actual equipment that gives you practical experience, brings to life what you learn from my lessons.

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Act now to enjoy more good things of life. Get the benefit of my 40 years' experience training men at home. Take NRI training for as little as $5 a month. Many NRI graduates (some with only a grammar school education) make more in two weeks than the total cost of training. Find out about this tested way to better pay. Mail coupon below today for Actual Lesson and 64-page Book — BOTH FREE. J. E. SMITH, President, National Radio Institute, Dept. **5DB**, Washington 9, D. C. OUR 40TH YEAR.

I Trained These Men At Home

"Started repairing Radios six months after enrolling. Earned $12 to $15 a week, spare time."—ADAM KRAMLIK, JR., Sunneytown, Pennsylvania.

"I've come a long way in Radio and Television since graduating. Have my own business on Main Street."—JOE TRAVERS, Asbury Park, New Jersey.

"Manager of meat market when I began. Answered ad for Radio serviceman. Got job. Pay increased 50% in year."—C. CARTER, San Bernardino, California.

"Am with WCOC. NRI course can't be beat. Passed exam for first class Radiophone license with no trouble at all."—JESSE W. PARKER, Meridian, Miss.

"Am with WNBT as video control engineer on RCA color project. Owe a lot of my success to your textbooks."—WARREN DEEM, Malverne, N. Y.

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FOR MEN

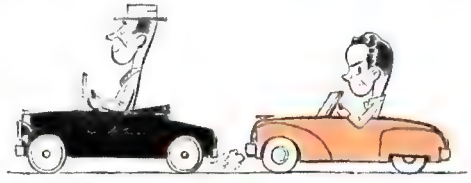
Letters

Teen-Agers Are People

I am a teen-ager, and I drive.

In your February issue [p. 216] you show a device intended to limit accelerator pedal travel of a car. The device would be locked in place when a teen-ager is behind the wheel, and would be unlocked for adults.

This is as unsafe a device as I have seen for a long time. There are many times when a little extra torque, obtained by floorboarding the accelerator, can pull you out of a tight situation. What happens if you want to pass another car on a two-lane road? Are you supposed to live in that oncoming traffic lane and endanger your own and other lives? Or are you supposed to crawl behind the



creeper for miles just because you happen to have a few less birthdays under your belt than the next guy? No person, teen-aged or otherwise, should operate any vehicle over which he does not have complete control.

If a parent thinks that his son or daughter can't be trusted with an automobile, then that teen-ager shouldn't be allowed to drive. The parent is not doing his kid any favors by letting him use what amounts to an unsafe auto.

Please stop dividing American drivers into three classes: men (considered great), women (look out), and teen-agers (absolute poison).

EDWIN G. SOLOV, Flushing, N. Y.

Not "Independent" Enough

Between 1946 and 1952 I bought seven cars, the majority of which were "independents." I did this in search of mechanical improvements which I felt would be more

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Get into a field where there is important work and the security that comes from knowing a good trade. The electrical appliance repair business offers OPPORTUNITY FOR YOU. Every wired home today has an average of 8 electrical appliances. Up to 10 million new appliances are sold every year. Owners pay well to keep them in repair and enjoy the convenience they provide. Here's your chance to qualify for a better job or be your own boss!

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Start soon to fix electric toasters, clocks, fans, vacuum cleaners, etc., for neighbors and friends. Work in your basement, garage, or spare room. Earn $3 to $5 an hour *in your spare time*. See how easy it is to increase your earning power—how you can pay for this training many times over with your spare time earnings.

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The day when the tinkerer could do the job is past. Today's automatic electrical appliances need expert servicing. Start now to learn a good trade like appliance repairing. No need to give up your present job while you train. Only $2.50 starts you, and you pay only $5.00 a month. A small price to pay for increased earnings, a more secure future. Mail coupon now.

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Clean out your cooling system this spring the easy all-in-one way with all new Permatex Cooling System Cleaner and Conditioner. Cleans out rust and scale—puts grease and oil in suspension and carries it out—and, as a plus, prevents rust from re-forming and seals all leaks. Two compartment containers with cleaner in top and rust preventative, sealer, and neutralizer in bottom.

There's No Other Product Like It!

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OVER 50 CHEMICAL PRODUCTS FOR BETTER AUTOMOTIVE MAINTENANCE

likely to come from the "underdogs" of the industry.

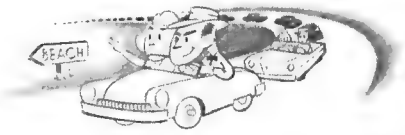
One time in all those years I got partly what I bargained for. As a rule the independents were simply aping the Big Three.

I sincerely feel for the "small" car maker: I am a small businessman myself—really small in comparison to them. But I wonder if these firms deserve to survive if all they can accomplish is to build a car as good—at best—as the Big Three.

ERIC REISFELD, Silver Spring, Md.

A New Calendar? Some Vote "No"

In regard to your article on the new World Calendar [Jan., p. 110], I believe the increase in the number of three-day holiday



weekends would increase traffic accidents. Give the public more long weekends to travel on and we will raise our accident rate. Otherwise the calendar sounds good to me.

JOSEPH A. BOLSTER, S. Easton, Mass.

. . . I should like to voice my objection. This calendar with its roaming religious day would bring hardship to people who are adherents to the seventh day of worship.

HARRY J. FUNK, Collegeville, Pa.

Divide, Don't Multiply

In your December article, "Calipers Give Radius of Segments" [p. 222], you incorrectly state "Read the caliper and divide the reading by half." Dividing "by half" would actually multiply the number by two. Your statement should read "divide *in* half" or "divide by two."

A. E. CLARO, Norwalk, Conn.

Sky Show Enrolls PSM Picture

Could you, please, satisfy a PSM fan's curiosity?

A striking color picture of the sun as it appears to radio telescopes was projected recently at the Hayden Planetarium. It looked like the illustration in your July 1954 issue, accompanying a British scientist's article on radio astronomy [pp. 80-81]. Did the Planetarium use your picture?

GEORGE HARRINGTON, NYC

Yes. This picture was the work of a POPULAR SCIENCE MONTHLY *artist, from*

INVENTORS

Learn how to protect your invention. The U. S. Patent Laws provide that any new and useful art, machine, article of manufacture, or composition of matter, or any new and useful improvement thereof, may be patented if the act of invention is involved. Therefore, every inventor with a valuable invention should take advantage of the Patent Laws and proceed for patent protection in order to safeguard his rights.

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The Patent Laws were enacted for the benefit of the inventor to give him protection for the features of his invention which are patentable. These features must be properly and concisely set forth and claimed in a formal application for patent, in order to comply with the requirements of the Patent Laws. For that reason, unless the inventor is familiar with patent matters, he should engage a competent registered patent attorney or agent to represent him. We are registered to practice before the U. S. Patent Office and are prepared to serve you in the handling of your patent matters.

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Registered Patent Attorneys

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editorial-staff sketches, and we feel complimented by its use in one of the Hayden Planetarium's renowned sky shows.

No Time to Lose

Please return my Geiger counter to me as soon as you have obtained your photographs. There have been new uranium finds near here.

EDWARD J. GAUSS
University of Colorado, Boulder, Col.

The article describing Mr. Gauss's Geiger counter appears on p. 231 of this issue.

Lincoln Hesitated Too Long

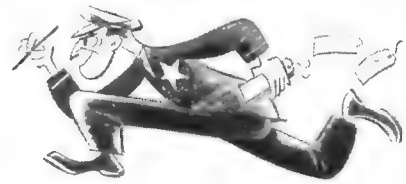
Pardon my curiosity, but will someone kindly tell me why Henry Ford installed wrap-arounds in most of his '55s but left his pride and joy, the Lincoln, with last year's curved windshield [Dec. '54, p. 135]?

L. A. HEIDE, LeRoy, Sask.

The sheet-metal die shops in the Detroit area were overloaded with work for a year prior to the announcements of the '55 cars. Lincoln delayed a decision on the kind of wrap-around it wanted until the die shops were too busy to handle Lincoln's order.

Old Idea from the Inventors

That long-handled tire marker for motorcycle cops checking on parked cars ["New Ideas from the Inventors," Feb., p. 147] may be new to you, but it's old stuff to Salt Lake City policemen. They have been using it for years. When it comes to handing out



traffic tickets Salt Lake City policemen are always first with the fastest.

REID E. BUSHMAN, Salt Lake City

Only the Timing Was Wrong

Did Devon Francis make a mistake on the horsepower ratings of the Cadillac [Dec. '54, p. 135]? I have a Cadillac booklet that states that the regular Caddy has 250 hp. and the Eldorado 270. Who is right?

JERRY BROCATO, Pensacola, Fla.

Oddly enough, both. At the time PSM *went to press, Cadillac was figuring on 240*

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INVENTORS

If you believe that you have an invention, you should find out how to protect it. The first step is to have a search made of the prior pertinent U. S. patents. If a report on this search indicates that the invention appears patentable you can apply for a patent, and the specifications and claims should be prepared.

The firm of McMorrow, Berman & Davidson, with offices in Washington, D. C., is qualified to take the necessary steps for you. We can make a preliminary search on your invention, advise you whether we think it can be patented, and prepare your application for patent.

Unless you are fully familiar with the U. S. Patent Laws, we recommend that you engage the services of a Registered Patent Attorney to protect your interests. The patent laws are *your* laws. A patent gives you the right to prevent others from making, using or selling the invention claimed in your patent for a period of 17 years.

Use these patent laws for your protection. Investigate whether your invention can be patented. If you have what you believe to be an invention, we suggest that you have this firm make a search for you.

Send for a copy of our Patent Booklet entitled "How To Protect Your Invention," containing information about patent protection and patent procedure. Along with this we will also send you an "Invention Record" form, for your use in writing down and sketching details of your invention. We will mail them promptly. No obligation. They are yours for the asking.

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Here's how it works:

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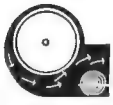
2. As heat output increases, the automatic vane opens slowly, increasing the flow of warmth into your living area.



3. Vane fully open for full flow of heat.

For complete information on how Perfection with Regulaire delivers *full time* comfort, write for free booklet, "If It's Comfort You Want". Perfection Stove Company, 7638-B Platt Avenue, Cleveland 4, Ohio. *Pat. pending

YOUR HOME DESERVES A **Perfection** AUTOMATIC HEATING

hp. for the standard job and 265 for the optional engine in the Eldorado convertible. Both were hiked at the last minute before they were shown to the public.

He Catches Catfish, No Doubt

A friend of mine, a successful salt-water fisherman, attributes his luck to a trick way of using "chum." He takes a can of cat food, punches it full of small holes and tows it

behind his boat. The fish are attracted to the cat food, he claims, and get caught on his baited hooks.

R. M. Woodbury, Natick, Mass.

Carrier Planes in the Air Force?

In "How to Make a Jig-Jet Puzzle" [Jan., p. 207] you mentioned the Panther jet plane, and in front of it was the term "Air Force." I've always been under the impression that only the Navy used the Panther.

Walter Cohen, Patchogue, N. Y.

Right. It's a carrier-based Grumman fighter.

They Already Make 'Em

In your page, "I'd Like to See Them Make" [Dec. '54, p. 149], Mr. R. R. Rundell, Miami, asked for "A special shank, one end shaped to fit bit braces, the other square to take sockets." For more than a year we have been manufacturing this item.

J. A. Gardner, President
Cincinnati Tool Co., Cincinnati

Dazzling Burst of Speed

You state that the Olds digs from 0 to 60 in 10.8 seconds [Dec. '54, p. 124] and you award it the "take-off title." Last year's Buick Century got there in 10.6 with no alterations on the transmission, and certainly the '55 can burn faster than a '54. What about it?

William G. Kyle, New Orleans

That take-off you report must have been the record of the century, if you'll pardon the pun. The best that the Century could do on the Popular Science *stop watch was 12.3 seconds, 0 to 60.*

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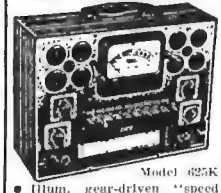

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What can you do about it?

Here's what the Society of Automotive Engineers recommends, "Where anti-freeze has been used, drain the solution in the spring; flush the system thoroughly and clean if necessary; then install a fresh filling of summer rust inhibitor and water."

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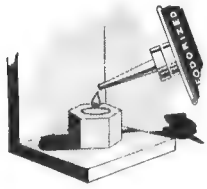

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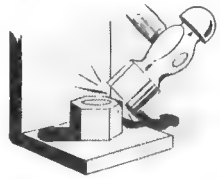

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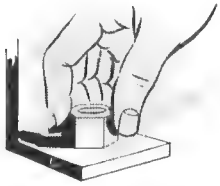

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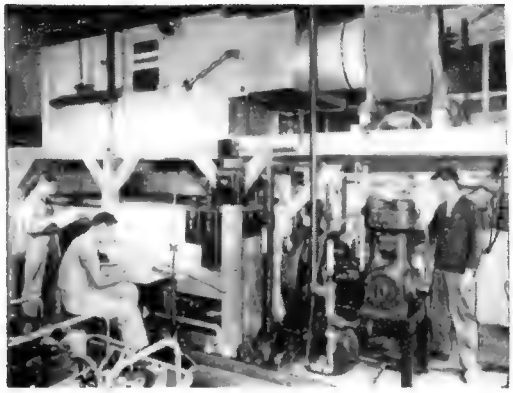

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- PENCILS, 57½¢ per Gross!
- 25¢ Rudolph the Reindeer Brooches, 2¢ each!
- Plastic Toy GUNS, 2¢ each!
- $1. Mufflers, Scarfs, 12½¢ each!
- Double edge razor blades, $1.50 per 1000!
- LADIES APRONS, 6¼¢ each!
- $2.50 WALLETS, 30¢ each!
- $1. val. BILLFOLDS, 15¢ each!
- $1. Kiddies handbags, 3¢ each!
- CIGARETTE HOLDERS, 1¢ each!
- BUTTONS, 144 for 25¢!
- NEW Phono records, 78 & 45 r.p.m., 7¢ each!
- 69¢ Insect Repellent, 5¢ each!
- New 20" T.V. Pic. tubes, $21.95 each!
- Famous brand $18.75 perfume, $1. each!
- 49¢ Xmas window decorations, 10¢ per set!
- $1-$3 Hard cover books, 20¢ each!
- $200.00 Surplus typewriters, $23.00 each!
- 50¢ Everyday greeting cards, 7¢ per box!
- $1.95 Men's Silk Ties, 12½¢ each!
- $1. val. personal cloth name tapes, 40¢ for 72!
- 39¢ Under arm deodorant, 2¢ jar!
- $1. Automatic card shufflers, 9¢ each!
- NEW HAIRNETS, ½¢ each!
- $15.00 Electric Percolators, $5.00 each!
- $1.75 Rudolph Reindeer kiddies toiletry sets, 35¢ each!
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(Above list merely illustrates type of bargains usually found in this paper. Lists naturally change from month to month.)

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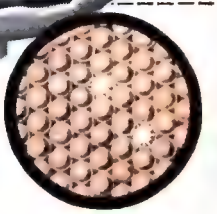
MAGNIFIED PORTION
of MICRO BRONZE filter showing microscopic metal balls fused together to make a solid, but porous, filter. MICRO BRONZE metal can't absorb additives, can't "channel;" can't "blow;" yet screens out finest particles of grit and metal which drop to bottom of filter housing as "sludge."



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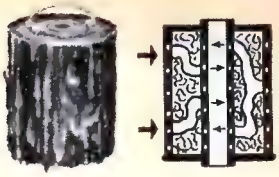
A MICRO BRONZE Unit that fits any standard filter housing including all full-flow models costs only $6.95. Easy to install, never needs changing. MICRO BRONZE Filter Housing, $9.95.

You'll save the total cost of your MICRO BRONZE Oil Filter in a few weeks. You save in replacement pack costs and "the quart for the pot" you need every time you change filter packs. *Most important, you save costly oil changes—with average driving, one oil change per year is sufficient.*

SOLD UNDER MONEY-BACK GUARANTEE TO LAST FOREVER!

THROW AWAY YOUR OLD FILTER



At left is shown an old-style filter "pack"—the kind that's probably in *your* car now. How can a dirty pack keep oil clean? It can't—actually contaminates your oil! Illustration at right shows how ordinary packs "channel" as a result of oil pressure, allowing dirt to tunnel through the pack and into the oil.

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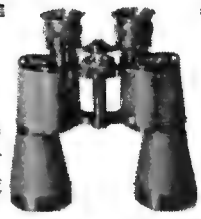
MAKE, MODEL & YEAR OF CAR_____

SALE



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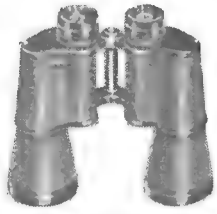

These are not "used" in the sense that someone else owned them, but their frames have been scratched or some of the paint rubbed off while being taken off of the shelves or when handled on our viewing range. Their cases, too, sometimes show scuff marks. OPTICALLY AND MECHANICALLY THEY ARE A-1. 7" high. Water-dust resistant. 2" wide objectives assure greater illumination and brighter sharper images. Weigh only 27 ounces!

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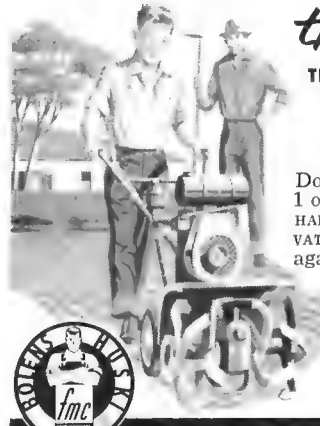

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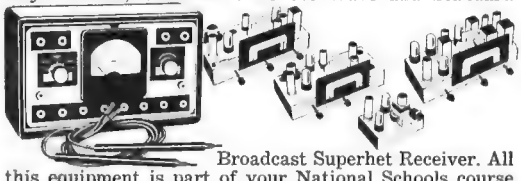

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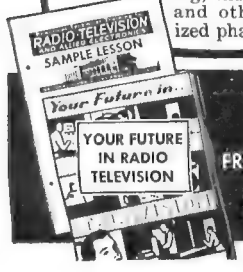

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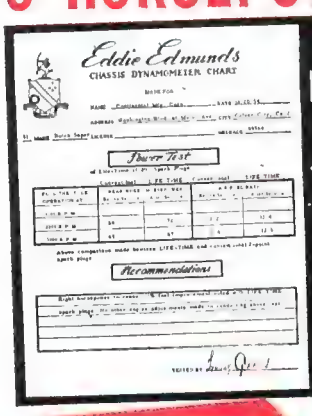


IN A TEST that echoed through the farthest corners of the automotive world, this LIFE-TIME Spark Plug still fired clean, hot and steady at **50,000 CAR-MILES!**

SPECIAL SINTERED CORUNDUM INSULATOR—Made of gem-like mineral which conducts heat 20 times better than ordinary porcelain. Special shape is designed to vaporize and exhaust wet carbon and oil.

NOW... ORDER REGISTERED SET FOR YOUR CAR AT POPULAR PRICE

PERMANENT GAP—After months of use LIFE-TIME Spark Plugs make of exact factory gap. The new design improves slow speed and idling performance.

SELF-CLEANING FOR LIFE—Confined gasses expanding in chamber formed by multiple electrodes explode arcing surfaces with each firing stroke.

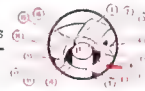
PLATONIUM-NICKEL ALLOY ELECTRODES—Metallurgists' first major step beyond platinum aircraft plug electrodes. Arcing points of this material have continued to function after the equivalent of 120,000 car-miles.

ELECTRODE RESEARCH, it can now be definitely stated, has probed far into one of the last remaining frontiers of knowledge about the internal combustion engine. Before LIFE-TIME development **the spark plug was the most often replaced part of your car.** In building the LIFE-TIME Spark Plug's radically advanced electrode design, our engineers knew, from periodic tests that we were on the track of something that would greatly increase plug life. We also **suspected** that electrode design could actually increase the horsepower of an engine.

HOW PLUGS CAN CAUSE POWER LOSS: Most engineers agree "creeping paralysis," gradual electrode disintegration, carbon build-up, gradually widening gap, all cause premature firing, misfiring and power loss — enough in many cases to **waste one gallon in every ten you buy.** But there were and are some fine engineering minds who feel that certain conditions of pressure and turbulence within the cylinder cause misfiring even with new conventional plugs.

It was this "suspicion" that clinched Continental Manufacturing Corp. executives' decision to gamble the necessary money and years of time. The end product of this decision is now in mass production, available for your automobile — an amazing spark plug that has — by test — fired clean for 50,000 miles and increased the horsepower of a familiar American car by 12½ per cent at 2,000 R.P.M.

HOW 17 PT. FIRING WORKS. Note LIFE-TIME's electrode design closely. A circular arcing area consisting of four concave segments. Distance (gap) to center electrode being the same from all points. Electricity has property of arcing from coldest point. Current also arcs more readily from the apex of two planes than from the face of a flat, metallic surface. Note that there are 16 apexes (places where two planes meet) on the outer electrode system — all the same distance from the center electrode. Normal heat and spark erosion are spread around the entire 360 degrees and around the whole circumference of center electrode.



FULL ROTATING SPARK allows overall cooler electrode temperature for greatly increased life. Also allows a hotter spark to prevent fouling yet the rotating and cooling effect minimizes the common faults of burning, erosion, blistering and resultant insulator failure. Compare this principle with the conventional 2-point spark plug design.

Most spectacular spark plug research breakthrough in 50 years allows us to include this unique and unprecedented warranty with every set of LIFE-TIME Spark Plugs. WE GUARANTEE GREATER GAS MILEAGE — GREATER ACCELERATION — A MAJOR POWER INCREASE — OR YOUR MONEY BACK.

YOU RECEIVE BY MAIL this registered set of LIFE-TIME Spark Plugs in proper series (heat range and gap) for the car you indicate in coupon below. NOW AVAILABLE FOR AMERICAN & EUROPEAN PASSENGER CARS, TRUCKS, BOATS, FARM EQUIPMENT, INDUSTRIAL ENGINES.

INDIVIDUAL INSPECTION—Each LIFE-TIME Spark Plug is tested for firing in oil and for resistance to 30,000 Volts./CM2

DEALERS AND DISTRIBUTORS The LIFE-TIME Spark Plug is now in full production. Write for full details. Distributors: Please inquire as to status of your territory.

DEAR CAR OWNER: The company has finally gotten this plug out of the race, test and economy-run class and made it available for your car at your price. And believe me, it is all we expected. Everyone knows how to make a miles per gallon test and it is an eye-opener with LIFE-TIME plugs, but here is a way you can make a test 15 minutes after you receive your set. Set the brake and block or jack up the rear end. Engage shift in high and shim accelerator pedal with a stop somewhere in the 25-45 MPH range. Take MPH reading with old plugs and then with new LIFE-TIME plugs at same stop. I figure you will show from 3 to 10 MPH increase. I'd enjoy hearing about your results. Many thanks!

Frank E. Williams

FRANK E. WILLIAMS, M.E.
Inventor of LIFE-TIME Spark Plugs

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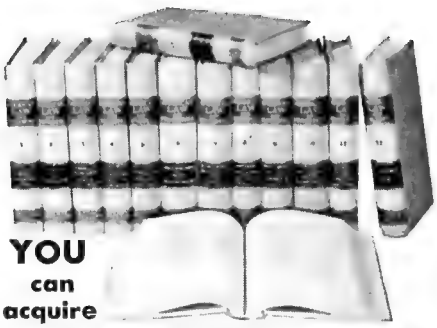

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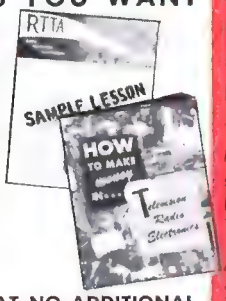

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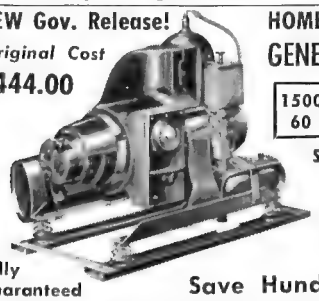

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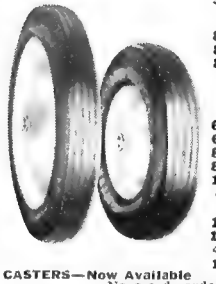

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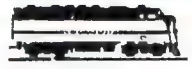

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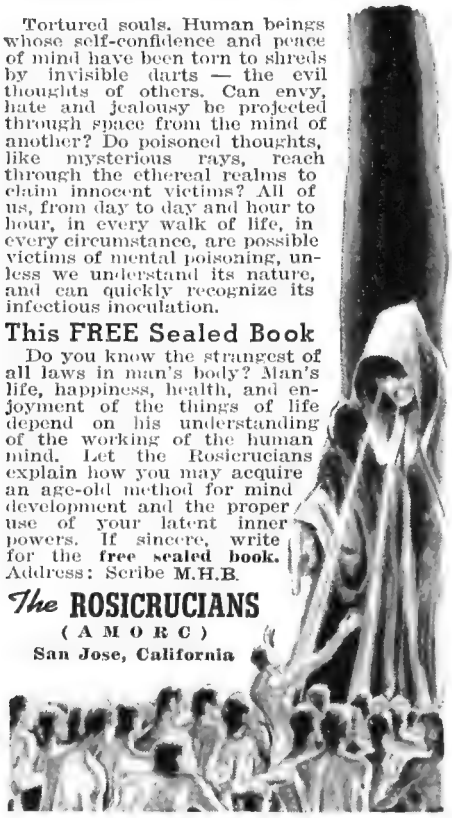

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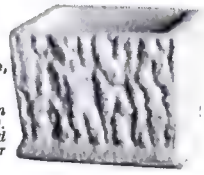

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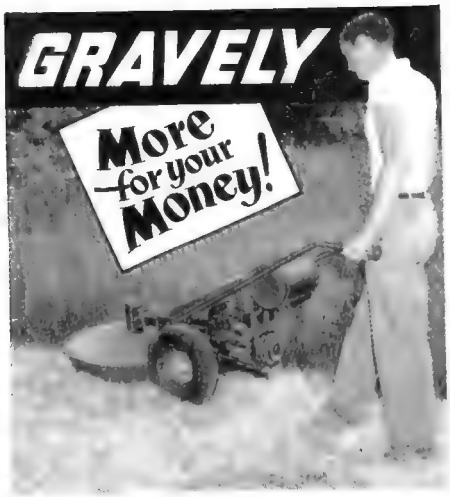

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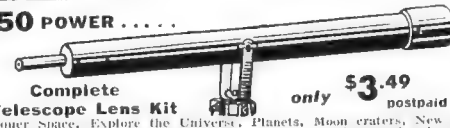

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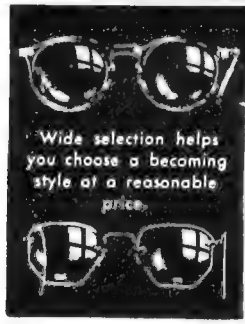

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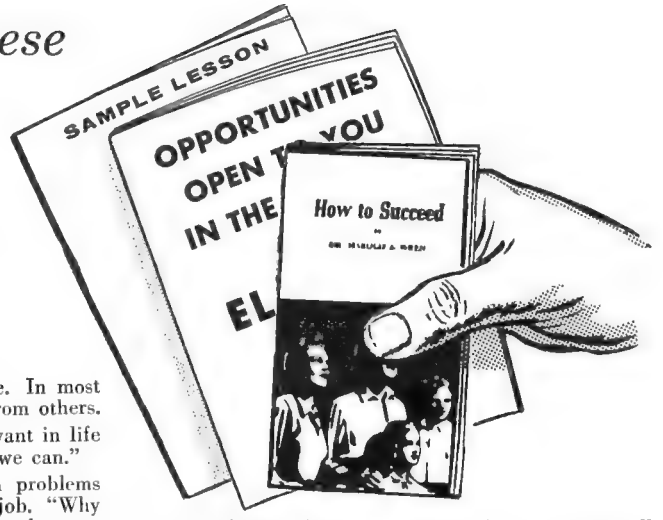

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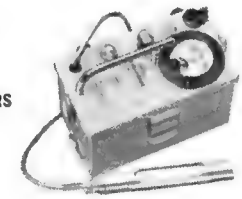

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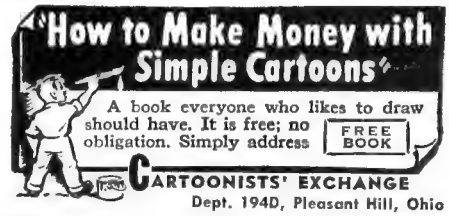
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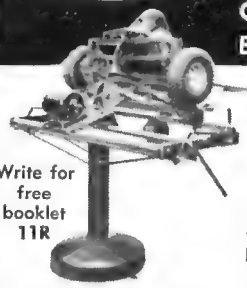

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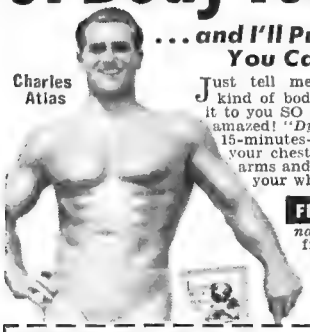

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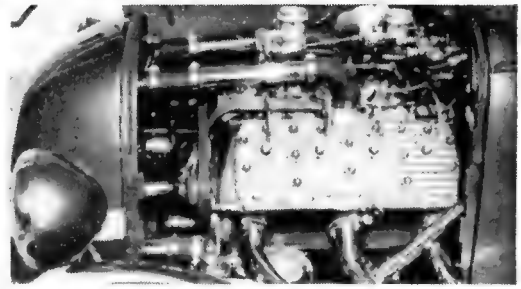

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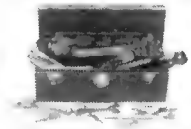

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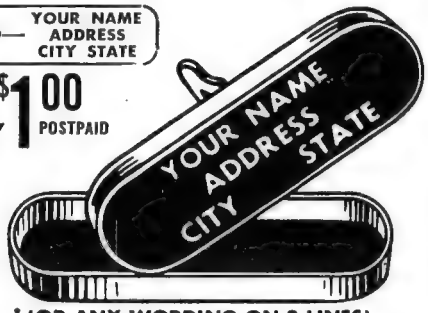

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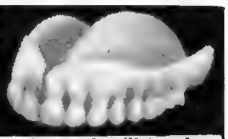

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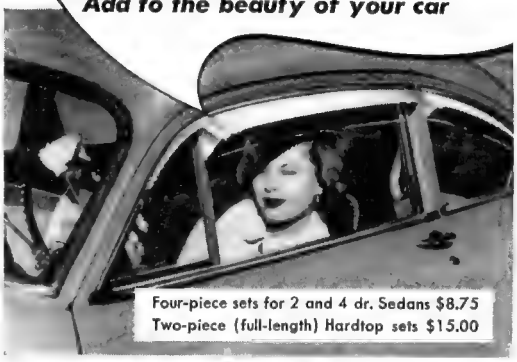

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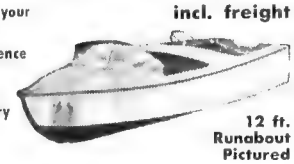

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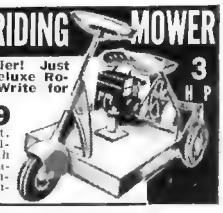

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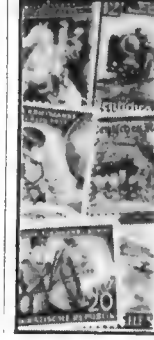

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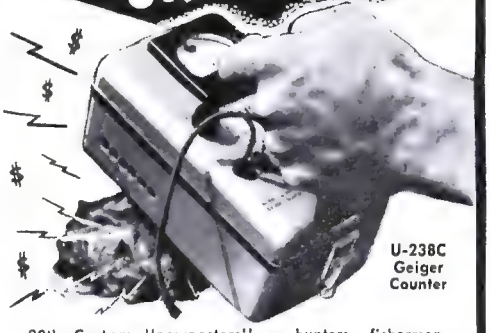

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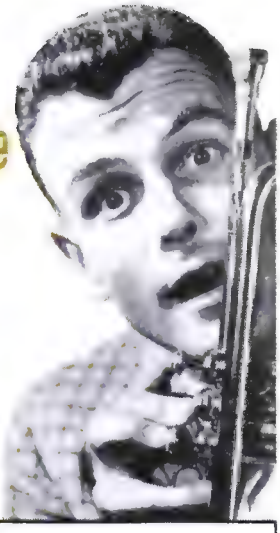

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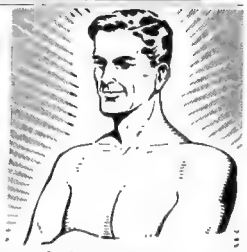

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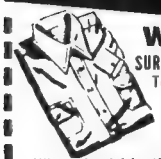

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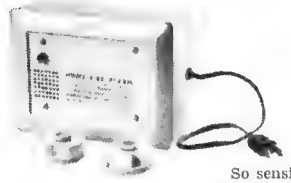

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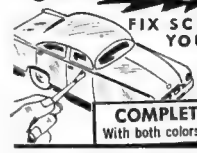

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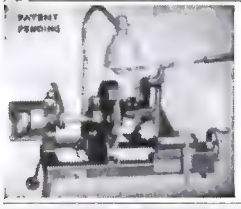

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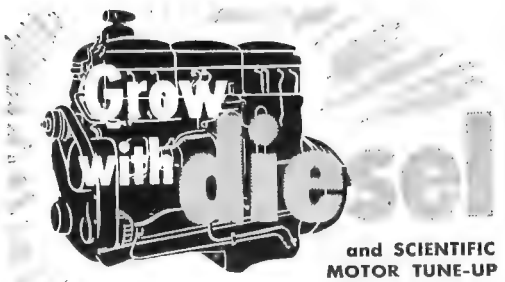

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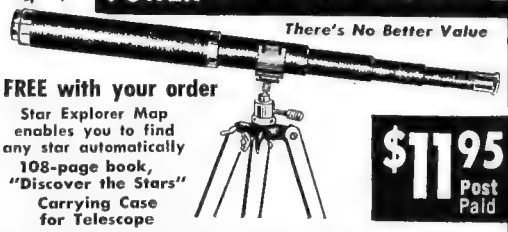

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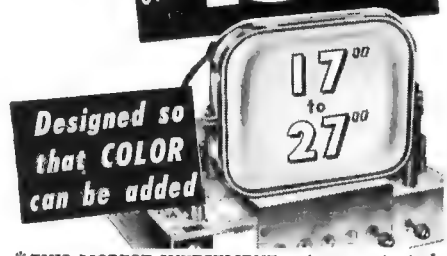

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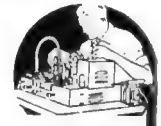

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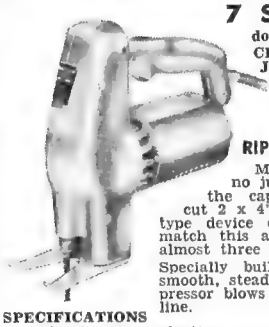

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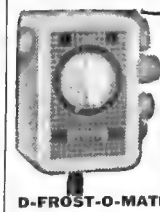

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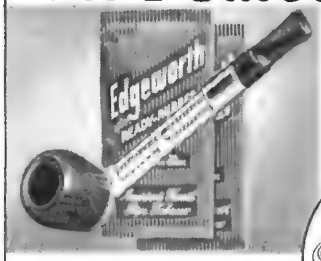

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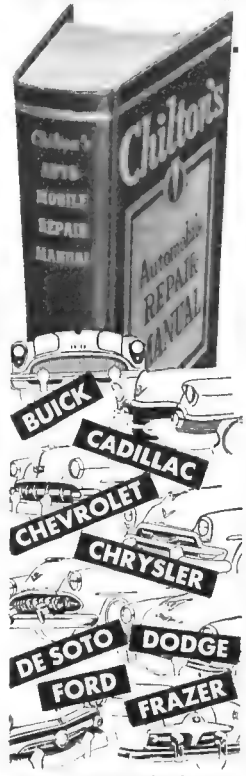

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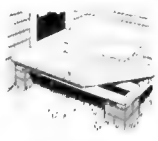

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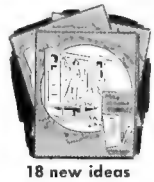

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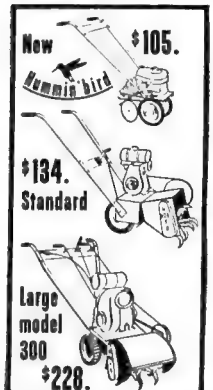

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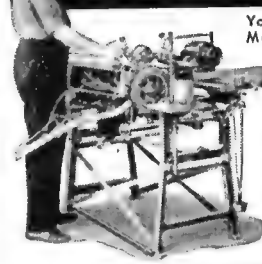

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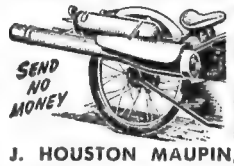

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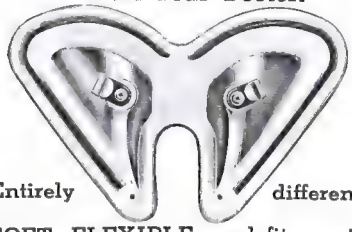

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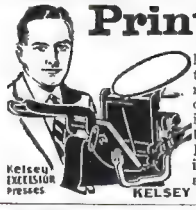

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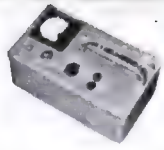

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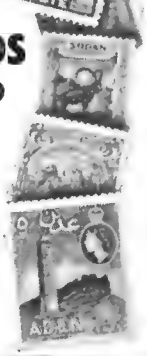

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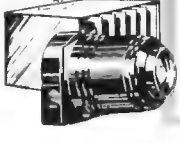

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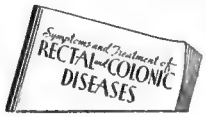

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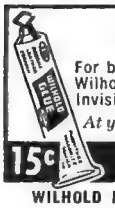

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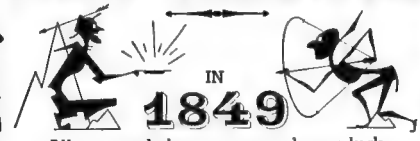

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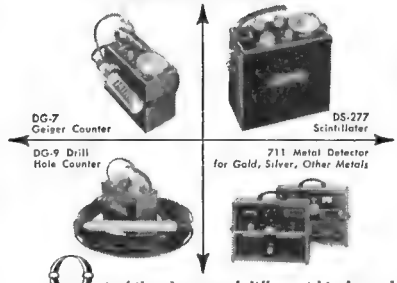

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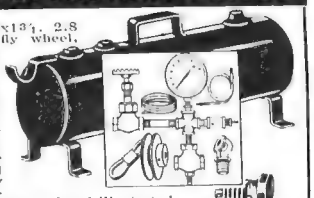

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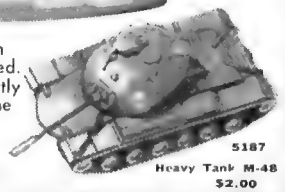

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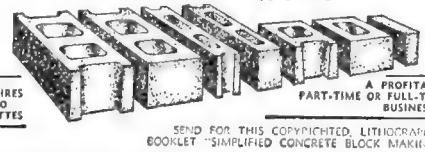

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650x16(6)	6.75	710x15	4.45	750x17	10.85	900x20	17.55
700x16	5.25	760x15	4.75	825x15	10.85	1000x20	17.55
750x16(6)	7.55	800x15	5.15	600x20	7.85	1100x20	18.25
700x15	4.65	820x15	5.35	650x20	9.25	1100x22	21.55
550x18	4.75	670x16	4.05	32x6(8)	11.75	1000x22	20.95
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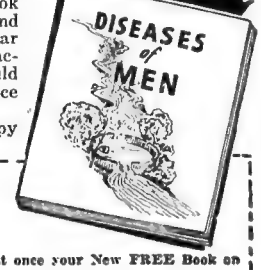

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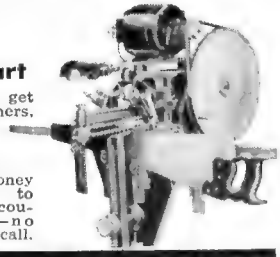

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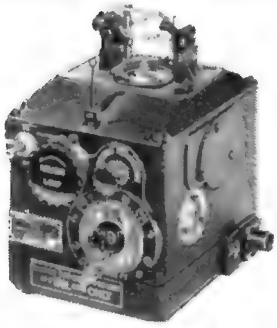

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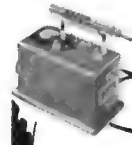

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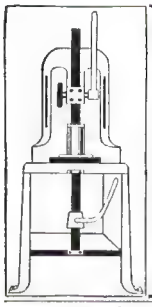

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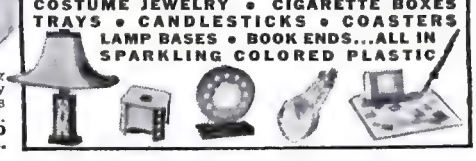

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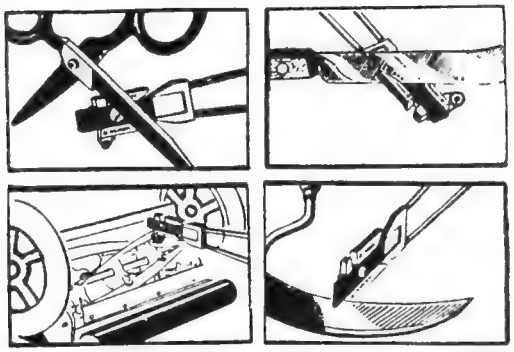

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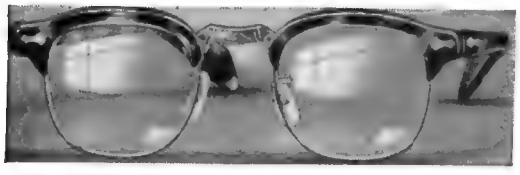

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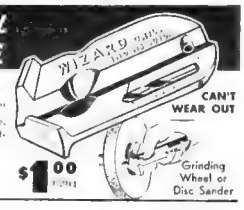

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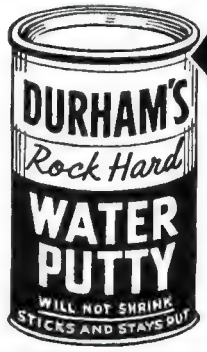

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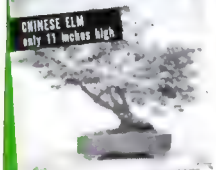

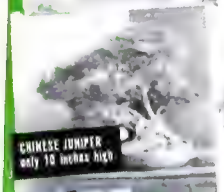

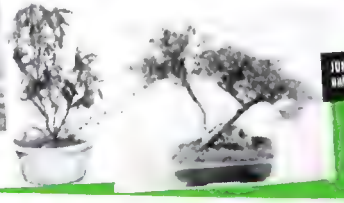

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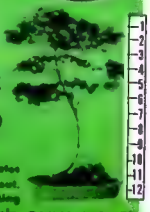

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FACTS for rockhound trips, uranium, prospecting, lapidary hobbyists, every month; 12 issues, $1.00. "National Prospectors Gazette", Bellflower 51, California.

TEN N.Mexico minerals $1.50, six fluorescents $1.00, fools gold 25c. Mineralight, books, Geiger counters. Hartson, Winston 5, N. Mex.

BEAUTIFUL Specimens, Arizona's famous petrified wood. $1.00. Becoming scarce. Hensley Brothers, Holbrook, Ariz.

31 HOBBIES, COLLECTIONS

INVENTING can be an interesting and profitable hobby. Write for complete particulars. Institute of American Inventors, Dept. 30-E, 631-E St., N. W., Washington 6, D. C.

NAZI Emblem sample and catalog 25c; 37 different American emblems $1.00. Hobbyguild. 550A Fifth Avenue, New York.

UNUSUAL Hobby: Authentic Army patches, insignias, ribbons, enameled crests. Navy rates. 50 assorted for $1.00. Rex Military, Dept. D., 1186 Broadway, N.Y.C.

HOLLOW Tree Monthly magazine. Year —50c. Sample—15c. Lawrence, Kansas.

100 MILITARY Official shoulder patch insignia. Free album. $5.00. All different. Wolf Appleton, Inc., 566-E Broadway, New York 12.

MILITARY Miniatures: U.S. Marines, American Revolution, Civil War, Custer's Cavalry. Illustrated Catalog 25c. Bussler Miniatures, Dept. E, 59 Russell Park, Quincy 69, Mass.

NAZI Medals, ribbons, flags, daggers. Big packet $1.00. Illustrated lists. Medcrafts, 1923 34th St. S.W., Calgary 3, Canada.

UNUSED matchbook covers—100 different $1.00—36 page catalog 25c—matchcover album $3.00. Charles Edelman, 1311P East 84, Cleveland 3, Ohio.

FREE! Leathercraft catalog. Do It Yourself! Tandy Leather, Box 397BH, Tulsa, Okla.

LATEST Fad! Collect different leathers, suitable for mounting; 50 all different, $1.00 postpaid. Devon Publishing, 6349-A North Western, Chicago 45, Ill.

MILITARY Miniatures, Tanks, Insignia. Catalog 25c. Griffin & Gray, (M-3), 72-05 67 Street, Glendale 27, New York.

32 PHOTO FINISHING, PHOTOCOPIES, ETC.

PARTICULAR? Custom Finishing Guaranteed. 8 Jumbos 35c, 12—50c. Special! 35mm 36 exposures $1.10. Free Mailer. Flash-Foto, Box 36H, Brooklyn 4, N. Y.

12 EXPOSURE rolls 39c, jumbo prints. Guaranteed work, one day service. Lincoln Studios, Dept. L, Box 13, Lincoln, Nebr.

SENSATIONAL Bargain! Two jumbo prints each good negative for the price of one, with this ad. 8 exposure roll Jumbo 35c, 12 exposure 50c. No limit number rolls with ad. Billfold prints 20 for $1.00. L. A. Eastman Studio, Bode, Iowa.

FREE Film! Write for mailers. Vets, Box 37PS, Montalvo, California.

AMATEUR Photographers sell your pictures "Photo Market Guide". Send $2. Mackwin, 493 Coral, Bridgeton, N. J.

ARTISTIC. Your snap shot reproduced on lamp shade, tile, brooch, plaque, compact, bracelet. Unique processes, unlike usual photograph. Literature free. Wells System, 14040 Euclid Avenue, Cleveland 12, Ohio.

FREE Beautiful 5 x 7 Redwood Logging print with each develop and print order. Quality Jumbo prints 6c ea. Satisfaction guaranteed P. O. Box 114, Eureka, Calif.

SPECIAL Introductory offer 8 Jumbos 25c, 12-35c. Western Photo, PS-45, Box 298, San Francisco 1, Calif.

4x6 OR 3¼x4½ oversize glossy velox prints 8 exposures 40c, 12 exposure 60c, 16 exposure 80c. Hagner Photo Service, 1318 West Columbia Avenue, Philadelphia 22, Pa.

SURPRISE gift with first roll developed. 8 jumbo superpak album prints or 16 contact prints 40c. 12 exposure roll 50c. Certificate for 3—5x7 enlargements. Owl Photo Co., Weatherford, Okla.

JUMBO Prints: 8-exposure roll 30c; 12 exposure 45c; 16 exposure 55c; Reprints 4c; Guaranteed Quality Since 1915. We do color. Mail Order Photo Service, Box 297, Watertown, Wisconsin.

8x10 ENLARGEMENT From any photo. Double weight paper 65c. Two $1.00. Original returned. Hammond Company, 18½ North Main, Hutchinson, Kansas.

AMAZING! Three 8x10 enlargements, portrait quality paper $1.00. Send negatives. Star Photo, P.S., Box 16, Andover, Mass.

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YOUR Photos and valuable papers up to 5½"x7½" Plastic Laminated 50c. Allen Laminating Company, Box 371, North Wilbraham, Mass.

33 MOTION PICTURES, SLIDES, SOUND EQUIPMENT

MOVIE Camera Film: 8 mm roll $1.50, 16mm 100' $3.00. Free processing. Better Films, 742 New Lots, Brooklyn, N. Y.

TAPE Recorders, Tapes, Accessories. Unusual Values. Dressner, Box 66, Peter Stuyvesant Station, New York 9.

WORLD'S Largest Selection Of Films. Buy, sell, exchange, rent features and shorts. Free bargain bulletin. Specify 8mm-16mm-silent or sound. Dept. F-4, Peerless Camera—415 Lexington Avenue—New York 17, New York.

SAVE 50%! Guaranteed-fresh color, b&w movie film! 8mm, 16mm. Free catalog! Eso-H, 47th Holly, Kansas City 12, Mo.

8 & 16MM Professional National Parks Movies in Kodachrome. List Free. Ideal Service Supply, 4644 W. Geary, San Francisco 18, Calif..

FREE! Blackhawk's Spring sale catalog new and used 16mm. films, used 16mm. sound projectors, new 2"x2" color slides and 8mm., 16mm. sound rental films. Blackhawk Films, 1167 Eastin, Davenport, Iowa.

5,000 8-16MM. Silent-Sound Films. International, 2120 Strauss, Brooklyn 12.

HUGE listings, color, B&W sports, comedies, travel, musicals, etc. Catalog 10c. Turke Films, Hinsdale 1, Illinois.

TAPE recorders accessories. Best buys. Boynton Studio, 10P Pennsylvania, Yonkers, New York.

MOVIE-Makers! Save 50% on your 8-16mm film and Do It Yourself processing equipment. Free Catalog. Superior Bulk Film Co., 448 N. Wells, Chicago 10.

34 CAMERAS, PHOTO SUPPLIES

BASS Says: Quality Cameras Since 1910. When in Chicago visit the Camera Cross Roads of the World . . or write us for your favorite equipment, new or used. Satisfaction Guaranteed. Bass Camera Co., Dept. AG, 179 W. Madison Street, Chicago 2, Illinois.

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DISCOUNTS to 40%—cameras, projectors, tape recorders, lenses. Write for individual quotations, no catalogs. Classified Camera E, 2375 E. 65 St., Brooklyn, New York.

BUY wholesale nationally advertised cameras, photo supplies, thousands other products at big discount. Free "Wholesale Plan." American Buyer's, 629-SS Linden, Buffalo 16, N. Y.

BARGAIN Prices on new and used photo supplies. Send 10c for latest catalog. Fotoshop, 136A West 32nd St., New York City 1.

ARGUS C-3, case, flash, Spotless, $48.98. Argus C-4, case, flash, never used, $73.81. Free catalogue. 1001 bargains. Dealer's Mart, 54 Beverly Rd., New Rochelle, NY.

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EFFICIENT—Inexpensive Repair Service. All cameras, movie cameras, binoculars. Free estimate. Modern Technical Supply. 55-PS-West 42nd Street, New York 36.

FREE! Free! Free! Central Camera Co., Photographic Headquarters since 1899, saves you money on all photographic equipment. Send for Central Camera Co.'s Free Photographic Bargain List today: Central Camera Co., Dept. 4-C, 230 S. Wabash, Chicago 4, Ill.

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PHOTOGRAPHERS Dream vacation—Free—Not a contest—Write for free details—Box 2015, Cincinnati 1, Ohio.

LENS Bargain: Brand new Steinheil Culminar 105mm f/4.5 in barrel with iris diaphragm. Regular $29.50 value. Ideal for camera or enlarger complete with mounting ring. Coated $14.95. Uncoated $12.95. Money-back guarantee. Lion Sales, Dept. S, 2500 Woodway Ave., Dayton 6, Ohio.

ARGUS C-3, case, flash, Spotless, $48.98. Argus C-4, case, flash, never used, $73.81. Argus 300w blower-cooled projector, case, $36.38. 10c brings catalogue of 1001 bargains. Dealer's Mart, 54 Beverly Road, New Rochelle, N. Y.

35 MUSIC, SONG WRITERS & RECORDS

WANTED! Poems for musical settings. Write Songwriters' Service, Clifton, N. J.

POEMS Wanted for musical setting. Send poems. Free Examination. Five Star Music Masters, 646 Beacon Bldg., Boston, Massachusetts.

SONGWRITERS! Protect your poems and songs! Don't mail anywhere! Write for safe procedure! Song Service 333 W 56th. Dept. P.S., New York 19, N.Y.

FREE Records of your song—Your words —My Melody. Free information. Johnny Mack's Melody Mart, 1094 West 39th Street, Dept. K, Los Angeles 37.

POEMS Wanted to be set to music. Free examinations. Send poems. McNeil, Master of Music, 510-PS, S. Alexandria, Los Angeles, California.

POEMS Wanted for musical setting. Send poems. Free examination. Crown Music Company, 1472-P Broadway, New York City 36.

POEMS needed for new songs. Send poems for free examination, details. Immediate consideration. Songcrafters, 2724 Arcade Station, Nashville, Tenn.

SONGWRITERS: Large recording company may record your song. National sales and promotion if selected. No Charge for Melodies. Send song material to Music Makers, Dept. G-8, Box 2507, Hollywood, California.

POEMS—Urgently needed to set to music! Write clever poems, catchy rhymes. Achieve Fame, Money in popular music field! Send sample poems. Free evaluation. TinPan Alley, 1650 Broadway (Dept. L), New York 19.

SONGWRITERS! Send poems, songs. Music Service, 243 West 72nd St., PS, New York 23.

SWISS Music boxes. Special tunes to order. Spielman, 131 West 42nd, New York 36, (CH 4-1995).

COLLABORATE With hit songwriter—Words or Melody. Joe Liggins, 1840 East 124th Street, Compton, California.

ACCORDIONS—Buy direct from importer—save 50% and more. Five days free trial; lifetime guarantee. Trade-ins accepted. Big color catalog free. Write today. Accordion Manufacturers & Wholesalers Outlet, Dept. 45-P, 2003 West Chicago Ave., Chicago 22, Illinois.

POPULAR Songs. How to write and sell them. Write for free booklet Successful Songwriting. Gateway Songs, Box 2470, Hollywood 28, California.

PHONOGRAPH Records 20c. Catalogue. Paramount, SA-313 East Market, Wilkes-Barre, Pa.

SONGS Into $$$$$$$$$$ — Share $29,785,899.00 each year for new songwriters, songpoets. Songs composed, published, promoted by largest firm. Information, appraisal Free. Postcard or copy to Nordyke Publishing Co., 7070 Hollywood Blvd., Hollywood 28PS, Calif.

SONGWRITERS—Poemwriters—Save money; heartaches; disappointments. Free catalog. Prevue—536 E. 5th St., New York City 9.

CHORDS & shorthand, $1. Stackpole, 2110-12 West Venango, Phila. 40, Pa.

1955 ACCORDIONS — Wholesale. Free catalog. American Accordion Center, PS-4, 5329 Belmont, Chicago.

36 RADIO, TELEVISION, SUPPLIES & EQUIPMENT

MAKE Simple, Tubeless, Batteryless, Distance-Getting radio. Genuine Melomite crystal, Detector, Illustrated instructions, 50c postpaid. Allen, 427-PS5, Clinton, Mo.

TV Trade-in sets. Philco, R.C.A., Emerson, others. List available. 10"—$17. 12" to 17"—$20 up. Washtek Service Co., Dept. S, 1501 Boston Road, Bronx, N. Y.

BUILD Super crystal radios, Electrotomic crystal, detector, instructions 50c. Electrotomics, Box 98S, Dixon, Missouri.

PRINTED Circuit Kit—All materials, equipment and instructions for designing and etching your own boards. Satisfaction guaranteed—$19.55 postpaid. Tele-Diagnosis, 155 West 72nd Street, New York 23, N. Y.

BUILD 15 Radios—Progressive Radio "Edu-Kit" only! $19.95 complete. Free Radio Tester, Electric Soldering Iron. No experience required. 30-day unconditional money-back guarantee. Order direct or send for free descriptive literature—no obligation. Valuable Radio & TV Repair Guide sent on request—no charge, no obligation. Progressive "Edu-Kit" Inc., Rm. 28-A, Progressive Bldg., 497 Union Ave., Brooklyn 11, N. Y.

GEIGER Counter and Metal Detector Kits. Inexpensive. Educational. Free Literature. Electronic Applications, Dept. A, 5024 Lee Hwy., Arlington 7, Va.

TV Tube trouble information and location chart. Locate defective tube by picture tube screen. Send $1.00 with make and model of your set. NW. TV Specialties, Box 1013, Seattle 11, Washington.

STANDARD TV radio tubes. Terrific savings fully guaranteed. Send for price list. Allied Electronics, 74K Cortlandt Street N.Y.C

CRYSTAL Radio Experimenters. Write Leslie Hulet, 305 Hope, Lakewood, New Jersey.

GOVT. Surplus electronics, radar, transmitters, receivers, components, from 35c. List 3c. Meshna, 580 Lynn, Malden 48, Mass.

MAKE simple powerful distance-getting crystal radio. Works anywhere. Illustrated booklet fifteen cents. Money back guarantee. Francis, Box 5963, Cleveland, Ohio.

NEW, Exciting radio TV items. Increases pleasure, saves money. Free details. Capcon, Inc., 25-PS Willett Street, New York City 2.

COMPLETE set of parts to build "Loopstick" Crystal Radio Kit. Finest, most sensitive yet designed. Complete with instructions. $2.95 postpaid. TV Sales Company, Dept. S, P.O. Box 44, Yonkers 1, N.Y.

HI-FI Stroboscopic Disc and instructions. Send 25c. Sela Company, 128 W. 48th St., New York 36, N.Y.

GENUINE Scotch recording tape. 1200'—regularly $5.50—Special $4.29. Three rolls $11.75 postpaid. Bronxville Camera Shop, 94 Pondfield, Bronxville, N.Y.

WALKIE-Talkie. Build a real wireless two-way portable radiophone for less $10.00. Plans 50c. Springfield Enterprises, Box 54-A4, Springfield Gardens 13, N.Y.

ENJOY Color television now! Non-inflammable multicolor screens for all black-white sets. Easily attached. Complete details, Free. Zingo Products, Johnstown 98, New York.

SUPER Pocket radio. Owners report coast-to-coast reception. Complete kit $2.99. Batteries $1.10. Tiny hearing-aid earset $2.95 or use any regular headphone. Will ship C.O.D. with $1.00 deposit. Rush order to-day. Satisfaction guaranteed. Transi-Mite Labs, Manteo, North Carolina.

37 BUSINESS OPPORTUNITIES

START A Buying Service, buy wholesale thousands nationally advertised products. Make big profits selling at sizeable discounts. Postcard brings details. American Buyers', 627-S Linden, Buffalo, N. Y.

LEARN Sewing Machine Repair, Rent, Trade, Sell, Service. Operate "Booming" Home Shop like others do. Zigzag machines and supplies furnished. Free details. Taylor Service, Box 2126, San Bernardino, Calif.

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RECAST old batteries into new. Latest achievements. Battery Laboratories, Minneapolis.

FIX typewriters. Free booklet describes our modern, inexpensive home-study course. Factory methods taught. Write Typewriter, Building 4, Tarentum, Penna.

WE Love our mailman—He leaves over $1,000.00 monthly in our rural mailbox. My college professor husband drafted a scientific home mailorder method. We bought a Texas ranch five as we always wanted. Now we sell the "Ranch Mailorder Method." Operates anywhere. Inquire: Eveningshade Ranch, Helotes, Texas.

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$1,000 MONTHLY possible in collection agency business. Free details. Write Cole Associates, Syracuse 2, New York.

ESTABLISH Automatic shoe shine route. Jiffy Shine, 1630 South Second, Phila. 48, Penna.

GROW Orchids at home—profitable—fascinating. Year 'round. Maine to California. No Greenhouse. Gorgeous Cattleyas, Cymbidiums, etc. Successful home grower shows you how. Free—full details. Flowerland, 4622-TX Wilshire, Los Angeles 5.

OPERATE profitable mail order business. Write Walter Service, 4159-B East 112th, Cleveland 5, Ohio.

MEN Wanted—Build Luggage And Cases At Home. We sell your products—supply complete instructions, materials, everything. No special equipment needed. Free details. Casecraft 805-H4 Sunset, Los Angeles 12, Calif.

$25 WEEKLY working two hours daily at home. Lycke, Box 2471-B, Cleveland 12, Ohio.

BRONZE Baby Shoes. Instructions, Equipment and mountings for genuine electroplated process. Free catalog. Hollywood Bronze Supply, Dept. B-1, 1624 East First Street, Los Angeles 33, California.

ENVELOPES addressed accurately, reasonably. Fast service. We have capable addressers in your city. Glenway System, 5713 Euclid, Cleveland 3, Ohio.

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MAKE extra money. Address, mail postcards. Spare time every week. Write Box 14, Belmont, Mass.

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MAKE Money At Home as renewal headquarters for all magazines. Liberal commissions. No experience—no capital needed. Supplies furnished. Write for Free Catalog. McGregor Magazine Agency, Dept. 510B, Mount Morris, Ill.

BE appointed state notary public now. Write—Stationers, Helotes, Texas.

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ADVERTISING book matches—Cash in on big demand—sell Union Label matches. Cuts for all businesses and political parties—Free powerhouse selling kit—low prices—protection guaranteed on repeat orders—Cash commissions. Superior Match Co., Dept. PX-455, 7530 Greenwood, Chicago.

BREED Rare Tropical Fish at home. Earn Big Money! Learn Secrets! Help fill huge demand. Amazing Opportunity! Free Plan. Tropical Fish Breeders, Los Angeles 61, Calif.

HOW and where to obtain Capital? Free details. Star Service, Wapakoneta, Ohio.

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MAIL Circulars. 100% commission. Free details. Fisher's, Dept. S4, 4750 So. Central, Los Angeles 11, California.

GROW Mushrooms, anywhere, anytime, for business, extra cash, hobby. Mushroom Lab. 32°A Kendrick St., Lawrence, Mass.

YOUR Own name brand business. No investment; no inventory. Part time or full time. Sell famous brands of appliances, housewares, silverware, radios, vacuum cleaners, lamps, tools, clocks, watches, jewelry, etc., etc., over 1,000 items. Join thousands of successful independent dealers. Send for Free catalog and dealer price list. H. B. Davis Corp., Dept. F, 145 W. 15 St., New York City.

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WHOLESALE! 40% to 80% off! Hundreds of items. Cosmetics, plastics, waxes, polishes, brushes, housewares. Mail Order Supply, Box 2022 Uptown, San Bernardino, Calif.

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BECOME A game warden, professional hunter! Join forestry, park, fishery services. Good pay! Opportunities open! Free! —revealing "Select-Job Chart," details, job-getting secrets. Write "Home-Study Institute" AL, Los Angeles 19, California.

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FREE booklet "Money Making Facts" tells mechanically-inclined men how to start sparetime business at home. Charles Foley Company, Columbia Heights, Minn.

REPAIR Dolls; make rubber stamps. Catalog "60 Ideas" Free. Universal, Box 1076-B, Peoria, Illinois.

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$80.00 WEEKLY. Operate our selective mailorder business in your area, sparetime. House of Plastics, Sales Division, Paramus 7, N.J.

BUY Anything wholesale save 20c to 75c on every dollar spent, write for free details. Mid-Western Distributors, Marion, Ohio.

"MAGIC Secrets of Wheat Trading," complete course. Pugh's Publications, Ambass. Station, Los Angeles 5, California.

$1,000 MONTHLY, home, mailorder, free advertising method. Revealing information. Seidel, 6000-B Sunset, Los Angeles 28.

OPPORTUNITY Mails three months 25c. Donovan, 793 Greenbelt, Levittown, N.Y.

OPPORTUNITY Seekers names none over 60 days from our advertising in magazines; All seeking ways to make money at home. 500 $5.00, 1,000 $8.00. Typed on gummed labels. Try 1,000. You will be back for more. Ken-West Distributors, 7-T South Harlem Street, Worcester 4, Massachusetts.

FREE Wholesale catalogue! Famous brand appliances, cameras, watches, etc. M.B.S., P.O. Box 252, Chicago 17, Illinois.

N.Y. Classifieds airmailed $1. Valentine. Box 493, White Plains, N.Y.

CINCINNATI, industrial center, jobs, homes, apartments, farms; complete Sunday paper classified section listing all, air mailed $1.25. Arthur's Service, 7367 Clovernook, Cincinnati 31, Ohio.

START your own Pet Shop. The most fascinating and money-making hobby of all. Send 25c for particulars to "Nature At Home", 4001 West Pico, Los Angeles 19, California.

EARN money at home. No canvassing. All business by mail. Publication fully describes 12 proven ways including making $250,000 in three years. 50c postpaid. Satisfaction or refund. Newman, Box 322-S, Penticton, B.C., Canada.

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MONEY in new greaseless doughnuts. Start in kitchen. No smoke. Sell stores. Free recipes. S. Ray Co., 3605 South 15 ve., Minneapolis 7, Minn.

PROFITABLE! Bronzing baby shoes. Instructions. Mountings. Foster, 1520 Ardmore, Chicago.

SELL Religious items, jewelry, automotive items by mail. We furnish everything —Fill orders. Eastern, Box 142B, Dorchester 24, Mass.

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ELECTROPLATE autoparts, novelties, mirrors, baby shoes. Easy, inexpensive home processes. Free booklet. Tyco Metals, Box 13231-CQ, Houston 19, Texas.

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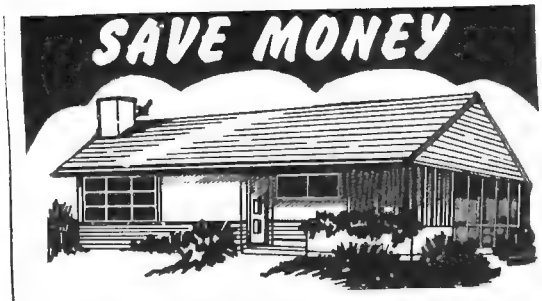

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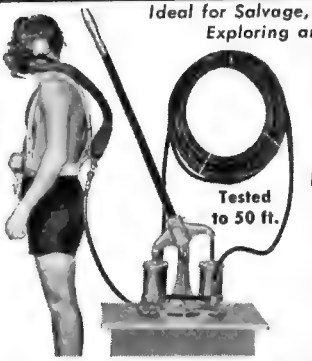

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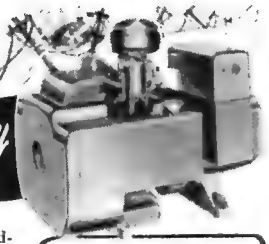

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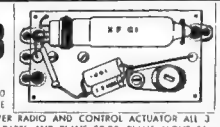

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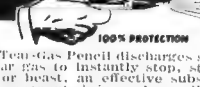

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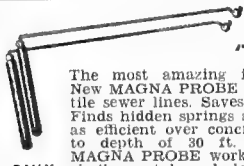

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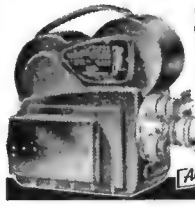

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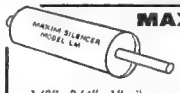

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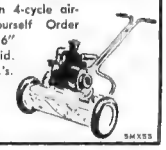

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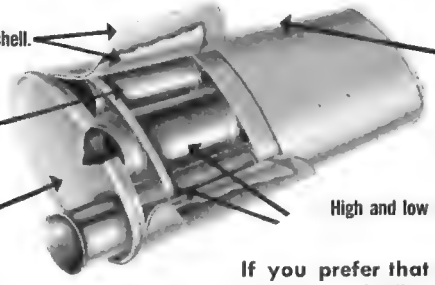
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YOU GET EXTRA HORSEPOWER AT HIGH SPEED with a new coupling for your car's fan and generator. It's a centrifugal clutch that permits slippage at high speeds, when accessories otherwise steal more engine power than they need. Lipe-Rollway Corp., Syracuse, N.Y., developed it...THE ARMY HAS A DREAM TRUCK made entirely of aluminum, even to wheels and axles. The Chrysler-built T55 weighs 6,000 pounds less than similar models. It has a 200-hp. air-cooled engine with fuel injection, and an automatic shift...AN ALL-MAGNESIUM AIRPLANE is being tested by the Air Force. One advantage: The supply of magnesium is inexhaustible--it is extracted from sea water.

CONCRETE BLOCKS WITH DECORATIVE FINISH ALREADY ON THEM now make it easy to build a completed wall in one operation. Some blocks have surface designs, others come in colors. One type has a glazed, tilelike surface... BALL-POINT LEAD PENCILS--they never need sharpening --are now on the market (Scripto, Parker). They work like ball-point pens but use liquid graphite instead of ink. Their writing is erasable.

SHOULD YOU USE HEAT OR COLD TO KILL THE PAIN after a tooth extraction? Makes no difference, a study at University of Pittsburgh indicates--one is as good as the other...A HELICOPTER SHOOTS PAINT AT BUFFALOES to tag the big animals for study of their migrations across a Canadian game preserve... EXPLODING ATOMS DECORATE THE DRAPERIES at Sweden's Gustav Werner Physics Institute. The Institute's head, Nobel Prize winner Theodor Svedberg, couldn't find suitable fabric, so he designed his own. Prof. Svedberg calls his pattern (shown at left) "Atomics."...A NEW RADAR IDENTIFIES AS WELL AS DETECTS airplanes as far off as 200 miles. The beam triggers an automatic radio that broadcasts an identification code. Lake Central Airlines uses the Melpar development.

NEW BOOKS BY PSM CONTRIBUTORS include: "Radio-Control Handbook," by Howard G. McEntee, published by Gernsback Publications, 25 W. Broadway, NYC; "The Story of Tire Beads and Tires," by Walter E. Burton, McGraw-Hill Book Co., 330 W. 42d St., NYC.

"I won the 1954 NASCAR Stock Car Racing Championship on the same 5-RIB CHAMPIONS we use in our family car!"

—says Lee Petty

Mrs. Petty and their sons Maurice (L.) and Richard. The family home is in Randleman, North Carolina.

1954 CHAMPION—NATIONAL ASSOCIATION FOR STOCK CAR AUTO RACING

"Stock car racing teaches a lot of things about how spark plugs contribute to good automobile performance.

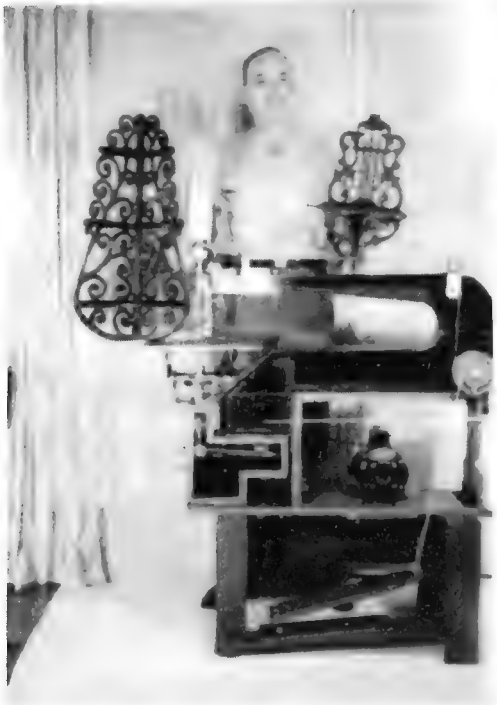
"I've found that to get the most power and economy from your car, the spark plugs must be in GOOD CONDITION, the CORRECT HEAT RANGE and INSTALLED PROPERLY. That's why you should stop in and have your Champion dealer give your spark plugs a three-way check.

"If you're not already using Champions, have the man put in a set. I've given those full-power, 5-RIB Champions all kinds of punishment in stock car racing, and they've never let me down. Try them in *your* car—I know you'll like the difference they'll make in your engine's performance."

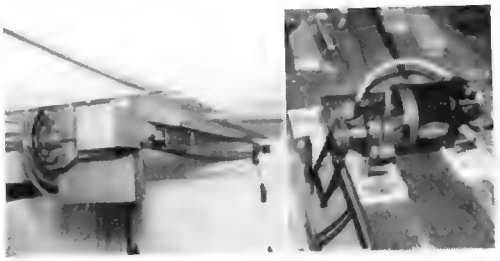
CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

CRAFTSMEN AT WORK

Novel Fence Encloses Patio. A supply of treadle sewing machines inspired Paul Jolly, a sewing-machine dealer of Glasgow, Ky., to fence in his patio with the iron-grille stands. The grilles were screwed to a top wooden rail and set in slots in a bottom rail. Between them and at corners he used ordinary pipe.



Pedal Controls Jigsaw Angle. Intricate scrollwork is done by Charles Gaines of Vallejo, Calif., on a jigsaw he built himself. Instead of turning the work to cut complex patterns, he changes the angle of the blade by means of a foot control.



Washer Motor Opens Garage Door. Taking the motor drive transmission from an old Bendix automatic washing machine, Alex R. Minelli of Hibbing, Minn., uses it to operate a chain drive for opening and closing his garage door.

He installed the motor on the floor of the garage attic, and just below it on the ceiling located the limit box, clutch and relay box along with an 8′ track and door linkage. Operation is by a key switch which he installed in the driveway.

Chair Rocks on Springs. Built by E. J. Pelletier of Retsil, Wash., for $5, this rocking chair utilizes flat springs for its rocker. Construction is chiefly of scrap stock, with wheels and axle of hard maple. The springs are oak boards, but they are soon to be replaced with spring steel.

"all in favor of quiet... say Evinrude"

● It's unanimous . . . the "Quiets" have it! For *quiet* boating is winning the votes on waters everywhere! And to the most enthusiastic owners in outboard history, quiet *means* EVINRUDE . . . the quiet purr of Evinrude *Whispering Power!* Along with *quiet* there's luxurious *smoothness*. Vibration and "boat shake" are magically gone. Every ride is smooth as sailing!

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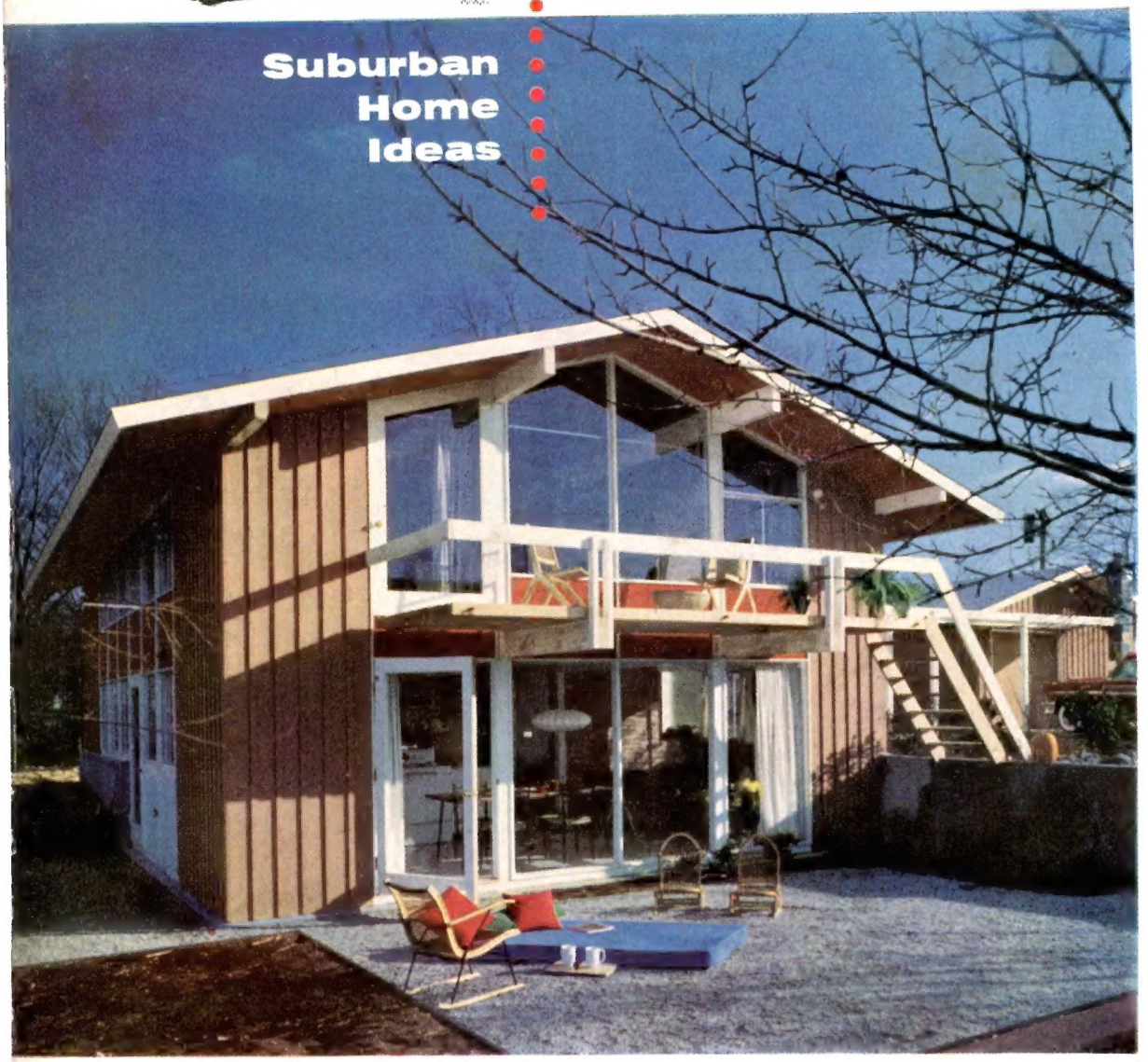
Architects

Suburban Home Ideas



"Best development house" expands from the inside

1 A split-level, this low-cost Techbuilt house is designed so that it can grow with the family without costly outside additions. It is built around a core consisting of utilities and immovable fixtures such as stairs, chimney, fireplace, bathrooms. The rest of the space is free and flexible. All partitions can be moved at will, thus increasing or decreasing either living or sleeping areas to fit a family's varying needs throughout the years. Architects: Carl Koch and Associates, Cambridge, Mass.

salute 7 fine homes

Low-cost houses and mansions are becoming more beautiful as U.S. suburbs continue to grow.

THE great exodus of American families from cities to suburbs, and from rapidly congesting suburbs to those just emerging from fields and woods, is changing the nation's appearance. It has spawned the century's biggest and longest construction boom. Since 1940, it has added 15,000,000 residents to areas 10 to 40 miles from the hearts of U.S. cities.

This year the building industry expects 1,300,000 new homes to be built. Some think this figure will be matched every year for the next five years.

Not only more, but finer, homes are rising. Pictured here and on the next two pages are seven homes that were chosen as outstanding by a panel of architects and building experts.

Awards of Merit from the American Institute of Architects were won last year by the designers of six of these houses. A prized First Honor Award went to the striking, custom-built residence shown below. Pictured in color at left is "the best development house."

First Honor Award home is mirrored in a man-made pool

2 Of this residence of Mr. and Mrs. James D. Moore, located in the semi-arid Ojai Valley in California, the A.I.A. jury said: "This house gets its special quality from a beautiful play of light and shade, the handling of materials and textures, the use of water and landscape to enrich the lives of the people who own this very handsome residence. The problem was the creation of an oasis and this was achieved." Architect: Richard J. Neutra; Dion Neutra, collaborator; Los Angeles.

Split-level houses are

Here are the PROs and CONs of this versatile and popular design that fits house to lot.

By John L. Springer

IN MANY sections, builders report, new houses designed with split levels now outsell one- and two-story houses by a margin of five or six to one. Operators of some million-dollar developments have stopped building conventional houses in favor of splits. Here, living and sleeping areas are not on the same floor, as in ranch homes, or separated by a full flight of stairs, as in two-story houses, but are a mere half-flight of stairs apart.

Houses are being split in different ways. Some are split sideways, with one section of the front higher than the other. Some are split from front to back and look like ranch houses in the front and two-story colonials from behind. Others, split from back to front, have a deceptive Cape Cod look.

"What's good and bad about a split-level?" I asked architects and realty salesmen. Here's how their score sheet adds up:

PRO It is ideal for a problem lot—and since most bargain lots have a terrain, water or rock problem, it often provides an easy solution where every dollar counts.

In a typical split design, half the house is built over a crawl space. The other part is raised half a story to rest over a cellar area. But the footings for the cellar are generally level with those for the crawl space, so little excavation is necessary. If the land slopes, you place your cellar on the downside and avoid some of the cost of buying fill.

RANCH-STYLE SPLIT

CON A split-level adds little to a level lot where excavation is easy—building one on a level plot may create dirt-moving problems.

PRO By keeping half the cellar above grade, the split-level makes it possible to use windows generously, avoiding the dank darkness common in older-style houses. In Eastern housing developments, this space is generally used for a garage, laundry area and recreation room.

CON The extra space of a split-level is a needless expense if you cannot use it effectively. In the South and on the West Coast, year-round weather may be mild enough so that you do not need a closed-in garage or an indoor recreation room for children or grown-ups.

PRO Some splits, especially those broken from side to side, give a big-house look. Half the house has a two-story appearance.

CON Artistically, the side-to-side split is not generally as attractive as a one- or two-story house. Houses split from front to back do retain much of the artistic appeal of ranch and colonial homes, but appear smaller.